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Rg/Rmc

SEEDS

BULBS

LIBRARY  
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JAN 27 1960  
U. S. Department of Agriculture

MUMS

PROCUREMENT SECTION  
CURRENT SERIAL RECORDS

APR 29 1965

U.S. J.A.  
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CONTAINERS

PLANTS

*Geo. J. Ball* INC.  
phone 299  
WEST CHICAGO, ILL.

1960





Left, Geo. J. Ball, founder of Geo. J. Ball, Inc. Below, left to right: sons Geo. K., Bob, Vic, and Carl who are carrying on the rapidly expanding business in the best traditions of its founder.

## GREETINGS FROM WEST CHICAGO

The job of supplying flower growers with live plant material and supplies is an intricate one, requiring knowledge and experience in all phases of business. In these days of rapid changes (example: more plastic greenhouses were built last year than glass ones!), we feel that we must take a conservative view of such changes, and apply effort to the task of providing our customers with reliable materials which can be used in profitable operations.

Yet an "ear must be kept to the ground" to keep pace with changes and also offer new, yet tested, proven varieties and supply materials upon which the future of our industry will be built. To help test and evaluate new products, we maintain a staff of three university-trained, experienced men in our Grower Service Department under the supervision of William Feaster, Jr.

To present new ideas and products along with our regular offerings is the job of this catalog. We hope you find it useful and wish you every success in the coming season.



## OUR STAFF:

### PLANT BREEDING



Phil Jones Bill Marchant Bob Rieman

### ADVERTISING



Bob Wintz Lulu Brown Frank Balzhizer

### BOOKKEEPING & CREDIT DEPTS.



Ted Payn Bob Marsh John Gabby

### PLANTS & BULBS



Arvilla Kirst Darrell Messick

### MUMS



Ethel Schaumberg Lawrence Rerko

### GREENHOUSE



Vince Hilger Lou Kovark

### SEED DEPARTMENT



Arne Knutsson Walter Neuman John Holden

### CONTAINERS & SUPPLIES



Monty Wright Charles Crownover Al Fairbank

### GROWER SER. OFFICE MGR. SALES MGR.



Bill Feaster Bernie Purnell Don Carey

### BALL SALESMEN

Standing, left to right: Vern Potteiger, Mo., Kans., Nebr.; Vince Nierste, parts of Ia., Minn., N. & S. Dak., Wis.; Bill Franklin, Md., Del., Cen. Pa.; Rocky Calamia, Conn., L. I., R. I.; Blaine Stuhlsatz, Chicago Area; Ray Benston, Mid-Atlantic States; Wynn Palmer, Canadian agency; Jim Tufts, New Eng.; Harold Innis, E. Ohio, W. Pa., W. Va.; Bob Will, Fla.; John Kyne, Calif. Bay Area; Dan Bailey, Rocky Mt. States; Joe Pedota, upstate N. Y.; Cliff Kraft, Texas; Bob Chase, Ala., Ga., Cen. & E. Tenn.; Bill Fisher, Ark., Miss., La., Cen. Okla.; Clarence Bahnsfleth, parts of Ill., Mich., Ohio; Clint Miller, S.E. Pa., S. N. J.; Don Carey, Sales Mgr.; Hank Van Wynn-garden, Ore., Wash.; Wynn Ivey, Canadian agency; Ben Luther, Wis.

Front row: Jim Lonsway, Canadian agency; Bob Whitman, S.E. Minn., Ia.; Si Randolph, Mich.; Bob Shoenhair, Ill., St. Louis; Roy A. Nicholson, Canadian agency; Kenn Tufts, Mass.; Frank Drab, N. J.; Bill MacDonald, N. Pa.; Bud Dunn, Ind., Ky.; Johnny Naydo, S. Calif., Ariz.







GREATEST NEWS  
IN GARDEN MUMS

"*Harvest Giant*"  
T. M.  
*Mums*  
PATENTS PENDING



The Largest Garden Mums Ever!

*Geo. J. Ball*

INC. takes pride in introducing...

Harvest Giant Mums. Here at last is the opportunity for you to offer truly large

September flowering Mums in a full range of colors to the buying public!



THE GREATEST NEWS IN GARDEN MUMS

# "Harvest Giant" Mums

PATENTS PENDING

GEORGE J. BALL, INC. TAKES PRIDE IN INTRODUCING . . . HARVEST GIANT MUMS—HERE AT LAST IS THE OPPORTUNITY FOR YOU TO OFFER TRULY LARGE SEPTEMBER FLOWERING MUMS IN A FULL RANGE OF COLORS TO THE BUYING PUBLIC!

**A REAL GIANT FLOWERING MUM**—Imagine being able to offer your customers football type Mums 5-6½ inches\* in diameter for the garden! No black cloth—No rain protection.

**SEPTEMBER FLOWERING**—These are among the earliest flowering of the garden Mums! Many of these Harvest Giant varieties will come into bloom as early as the middle of September and will bloom continuously until killing frost. It must be noted that in cases of abnormally warm summers, flowering may be delayed two or three weeks.

**FALL COLORS**—Harvest Giants are available in a full range of fall colors from pure white to deep golden yellow, bronze, pink and red. See back page for a full description of each variety.

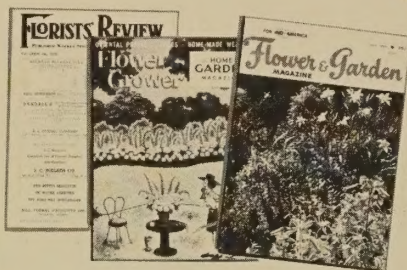
**STURDY HABIT**—Flowers are carried on heavy plants that have very strong stems. This makes the Harvest Giants particularly nice for garden borders and cut flowers.

*\*In order to achieve maximum flower size plants must be disbudded. Without disbudding flowers are more numerous but somewhat smaller.*

## Nationally Advertised

To help you in your selling job, Harvest Giants will be heavily promoted in the Consumer (garden) press this coming winter and spring. Be on the lookout for the full color ads in *FLOWER GROWER* and *FLOWER AND GARDEN* magazines. They are sure to arouse interest and stimulate demands for these plants at the retail level.

In addition you will receive an outstanding full color poster printed in Switzerland showing four of these varieties at half again their normal size.



**INDIAN SUMMER**—Like its name, this variety really speaks of fall, with its striking deep bronze color and golden reverse which blend in well with the fall garden. Flowers up to 6½ inches in diameter.







## The Largest Garden Mums Ever!

**FULL MOON**—Note the fine incurved habit of this variety, truly a greenhouse type Mum for the outdoor garden. Flowers up to 6 inches in diameter.

**PROPAGATED BY SPECIALISTS**—Planting stock is selected with utmost care to insure quality cuttings. Available in quantity for delivery the spring of 1960.

**PLANT PATENTS PENDING**—Since these varieties are so unique in the garden Mum field, plant patents have been applied for. Therefore, asexual reproduction of these plants is strictly prohibited under the plant patent laws.

### ORDER CUTTINGS NOW

The originators of the Harvest Giant Mums, Leva and Orville Dunham of Grand-Mere Nursery, Niles, Michigan are pictured kneeling beside one of their favorites, Touchdown. They have been working at the development of these garden giants for nearly seven years. Now at last they are ready for nationwide distribution.



**GOLD DUST**—This bright golden yellow variety has somewhat smaller flowers but in greater abundance, creating an eye-catching contrast when used with other Harvest Giant varieties.



# TIPS ON GROWING...AND SELLING

*Harvest Giant Mums*  
T. M. PATENTS PENDING

**When to buy . . .** Rooted cuttings are available from April through mid-June. (Harvest Giant varieties are such vigorous growers that mid-June cuttings will develop excellent flowering plants by September).

**Tips on Growing . . .** We suggest potting cuttings into 2¼ or 3 inch Jiffy-Pots, pinch them fairly hard at time of potting, and if at all possible, again in three or four weeks. Frequent and severe pinching is the key to good habit. For best results plant in full sun.

**Sales Aids . . .** A colorful poster will be furnished with every order. This poster when displayed in your bedding plant area will be sure to arouse interest and stimulate sales. Cultural leaflets for your customers will also be provided.

## COLLECTIONS

**Collection A**—Our "Have a look" deal—25 cuttings of 4 varieties, our choice (4 colors)  
Total 100 cuttings . . . **Price \$29.50**

**Collection B**—Five varieties, our choice (4 colors)  
Total 300 cuttings . . . **Price \$63.00**

**Collection C**—Five varieties, our choice (4 colors)  
Total 600 cuttings . . . **Price \$114.00**

**SEPARATE VARIETIES . . .** Minimum order—50 cuttings of any one variety. Minimum total order—300 cuttings.

Amount	Price Per Cutting
300-950 . . . . .	23¢
1,000-4,950 . . . . .	20¢
5,000-9,950 . . . . .	19¢

## Write for quote on larger quantities

In the event that any variety is sold out at shipping time, substitution will be made by our supplier with a suitable variety.

**SUGGESTED RETAIL PRICE \$1.00 PER PLANT**  
(FOR SPRING SALES IN 2¼" OR 3" POTS)

**PLANT PATENTS PENDING—Asexual Reproduction Prohibited.**

*Gro. J. Ball*



### FULL MOON

Outstanding pure white. Incurved standard type flowers that will measure up to 6 inches in diameter.



### WHITE FROST

Pure white semi-incurved with flowers up to 5 inches. Slightly more flowers than Full Moon.



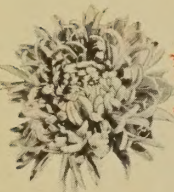
### GOLD DUST

Bright golden yellow flowers up to 5 inches in diameter. Very free flowering with a compact plant habit.



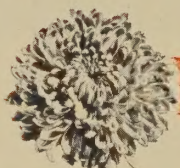
### JACK-O-LANTERN

A pleasing light lemon incurved. Most flowers will measure up to 5 inches in diameter.



### TOUCHDOWN

The largest of the Harvest Giants. This superb deep rose pink standard produces flowers up to 6½ inches in diameter.



### SEPTEMBER SONG

Like all Harvest Giants this medium rose-pink variety flowers continuously from its first flowering date 'til hard freeze. Very compact plant habit.



### PINK HAZE

A pleasing light shell pink. Flowers of this variety will measure up to 5½ inches in diameter.



### INDIAN SUMMER

A striking deep bronze with a golden reverse—Flowers of this excellent variety may attain a size of 6½ inches.



### PUMPKIN

A soft golden bronze incurved. Flowers up to 5 inches across are produced in abundance on very compact plants.



### REDSKIN

Vivid burgundy red. Reflex type flowers that will measure up to 5 inches.



# Snapshots of Our Offices and Greenhouses



## ORDER PROCESSING

Your order moves through our office on a 24-hour schedule—"same day service"—laid down by Geo. J. Ball in the early years of our seed business. We find that growers appreciate this, as it helps to cover last minute changes in their planting plans.



## IBM EQUIPMENT

Latest electronic IBM equipment is used to facilitate speed and accuracy in service. Sales of various items can be quickly analyzed so that we can keep on hand only enough fresh stock for immediate delivery.



## GROWER SERVICE

Have a problem in culture of plants? We may not be able to solve it, but if necessary, our Grower Service men will go "to the top." They are all college-trained horticulturists with practical experience in greenhouses.



## SEED PRODUCTION

Much of the Ball F<sub>1</sub> Hybrid Snap and Petunia seed is produced at West Chicago greenhouses. Other seeds are produced from planting stock which in turn is produced at our West Chicago greenhouses to control the quality of our strains.



## PLANT BREEDING

Training, experience, skill, and above all, patience, are required to produce new varieties. Average time from first crosses to a bag of seed ready to sell is 10 years. Staff of our Santa Paula, Calif. breeding station is pictured above.



## SEED STORAGE

Ideal storage environment for seed is air of average temperature kept uniformly dry. Special air-conditioning and drying equipment assures proper storage of your seed until it is shipped to you.

**FIELD DAY 1959 . . .** You're cordially invited to be with us this year. Watch for announcement of date.







# How to Get The Most From SWEET SIXTEEN for '60

## TOPS IN ANNUALS

We are getting more and more reports each year of increased bedding plant sales due to Sweet Sixteen.

**Are you getting the maximum benefit from Sweet Sixteen?**

Many growers, such as the Raffaellis pictured in color on the next page, have really found the answer. They have planned the major part of their bedding plant operations around Sweet Sixteen and it has increased their bedding plant sales twofold . . . it can do the same for you.

Shortly after February 1 you will be receiving your free Sweet Sixteen kit which contains all the elements for a successful spring bedding plant promotion.

**Sweet Sixteen is the proven way —Why not try it yourself this next season?**

## THE SWEET SIXTEEN STEPS TO SUCCESS:

### 1. Arouse interest in your customers for home gardening.

Early in the season start sending out the Sweet Sixteen Bedding Plant Pamphlets. It lists the Sweet Sixteen varieties, featuring in full color the new and most popular varieties for '60. Helpful cultural information and tips on planting are also included. (See below).

### 2. Have sufficient seed of all 32 Sweet Sixteen varieties.

The list is divided into 16 Petunias and 16 General Annuals. These well-screened varieties were selected for their popularity throughout the country, abundance of blooms, and wide color range.

### 3. Grow in handy, attractive self-service containers.

Make it easy for your customers to buy . . . do away with needless digging . . . grow your Sweet Sixteen plants in Jiffy-Pots and Market-Paks. (See pages 106 and 108).

### 4. Use Jumbo Picture Cards in the sales area.

Clearly marks the location of each variety. Pictures sell and the Jumbo Picture Cards provide maximum sales impact on your customers at the point of sale. (See below).

### 5. Put a Plastic Picture Label in every pak.

For the customer to take home. Helpful cultural information is printed right on the label and is a big help to the customer when ready to plant. (See below).

### 6. Add interest to your sales area.

Display the colorful and informative Sweet Sixteen posters. Each variety is listed in full color on these popular banner type posters. New this year is a colorful poster which gives planting suggestions and landscape ideas using Sweet Sixteen varieties. These posters are included in your Sweet Sixteen Kit.

### 7. Advertise in your local newspaper.

We have available to you, free of charge, expertly prepared ads in mat form which you need merely take to your newspaper. These are complete ads that have proved successful in bringing in the business. Proofs of these ads are included in the Sweet Sixteen Kit.

## BALL SWEET SIXTEEN SALES PROMOTION KIT CONTAINS:

### Bedding Plant Posters

#### 2 Banner Posters of popular bedding plants.

Petunias for Constant Summer Color—16 varieties.  
Annuals, the Heart of Your Garden—16 varieties.

#### 5 Special Posters

Jiffy-Pots  
Impatiens

Pansies

Harvest Giant Garden Mums

Sweet Sixteen Planning Poster—Designed to show customers how and where to plant Sweet Sixteen bedding plants.

Due to the constantly increasing requests for additional Sweet Sixteen Kits, we find it necessary this season to make a slight charge for additional kits. The cost is far below the actual cost of printing and producing the kits, but will defer some of the costs of handling and mailing.

**First Kit—Free:** 2 to 10 kits, **35c** each; 11 to 50 kits, **30c** each; over 50 kits, **25c** each.

### Sample Bedding Plant Pamphlet

This **full color** pamphlet lists the Sweet Sixteen varieties and features the new and most popular varieties for 1960. **New this year** will be a section giving **cultural information and tips on planting**. Ideally suited for mailing . . . space provided on the back cover for your firm name imprint.

#### PAMPHLET PRICES

100 to 900 **\$1.75** per 100; 1000 or more, **\$15.00** per 1000. Order in multiples of 100. Net prepaid. Slightly higher in Canada.



### Ad Builder

To help you prepare attractive ads for your local newspaper. It's so easy to do and **really pays off!** Each kit contains a sheet of reproductions of the ads.

### Streamers

These colorful signs direct thinking and encourage impulse buying.

### Sample Picture Label

Made of Pure White Plastic . . . **durable and fade-resistant**. Cultural information on each label—helpful to your customers at planting time . . . **Height, spacing, sun or shade, etc.** Size: **1 3/4 x 6 3/4 inches**. Available in Sweet Sixteen varieties listed on page 3.

#### LABEL PRICES

##### Sets

320 labels, 10 each of 32 varieties . . . **\$ 6.25**

1600 labels, 50 each of 32 varieties . . . **28.00**

**Individual labels** available in units of 50 of any one variety.

**Minimum order 50.** Up to 950 labels, **\$1.95** per 100; 1000 to 4950, **\$1.75** per 100; 5000 up, **\$1.65** per 100. Slightly higher in Canada.



NEW

NEW

NEW

NEW

NEW

### Sample Jumbo Picture Card

Size: 5x7 inches

Designed to clearly mark the location of each Sweet Sixteen variety in the sales area . . . printed in **full color** on durable, pure white cardboard . . . **water resistant** . . . **waxed both sides** . . . **room for pricing** . . . can be hung over benches, stapled to plant labels, etc. Available in Sweet Sixteen varieties listed on page 3.



ZINNIA MERRY-GO-ROUND

NEW! Sample Bedding Plant Pamphlet - eye-catching and useful full size 4 1/2" x 7 1/2" - pages 10-14

#### JUMBO CARD PRICES

**Sets:** 1 each of 32 varieties, **\$2.00**; 5 each of 32 varieties, **\$8.75**.

**Individual cards:** Available in units of 10 of any one variety.

**Minimum order 50 cards.** 50 cards, **\$3.00**; 60 to 250 cards, **\$5.50** per 100; 260 up, **\$5.00** per 100.





Sweet Sixteen at work at Texarkana Greenhouses, Texarkana, Texas. Joe and Becky Raffaelli have followed the Sweet Sixteen steps to success. Notice the powerful effect of their display area. It is located outdoors under lath, the roof being covered with Polyethylene for rain protection. Plants are grown in Jiffy-Pots and Market-Paks for easy self-service. The colorful banner posters from the Sweet Sixteen kit make the sales area bright and attractive. Plants are clearly marked as to variety and price. Fewer sales personnel are needed . . . customers make their selections, pay at the cash register and they're on their way.

Has it made a difference? Ask the Raffaellis!



## SWEET SIXTEEN SELECTIONS FOR 1960

Here are the selected varieties that will appear throughout the promotion on posters, etc.

The Sweet Sixteen symbol appears with each of these varieties as listed in the catalog.



To take full advantage of these sales-producing posters and sales aids, we suggest that you **include in your annual flower seed order some seed of all of the varieties** which will be pictured in full color on the posters.

### PETUNIAS

#### FOR SUMMER-LONG COLOR

White Magic	Crusader
Pink Magic	Comanche
Blue Magic	Sugar Plum
Chiffon	Satellite
Bingo	White Velvet
Maytime	Pink Velvet
Tango	Glitters
Matador	Ball All Double Mixture

### ANNUALS

#### THE HEART OF YOUR GARDEN

##### For Cutting

Aster, Ball Florist Mix.  
Snaps, Rocket Mixture  
Zinnia, Merry-Go-Round  
Zinnia Dahlia Flwd. Mix.  
Dahlia, Unwin's Dwarf Mix.  
Carnation, Chabaud's Mix.

##### For Shade

Coleus, Ball Rainbow Mix.  
Impatiens, Dwarf Mix.

##### For Border

Ageratum, Blue Mink  
Alyssum, Royal Carpet  
Marigold, Petite Mix.  
Phlox, Globe Mix.  
Verbena, Ideal Mix.  
Portulaca, Double Mix.  
Marigold, Color Magic  
Salvia, St. John's Fire

### SWEET SIXTEEN

#### SEED COLLECTIONS

##### Sweet Sixteen Petunias

Tr. pkt. each of the Sweet Sixteen "Petunias for constant summer color."

(Catalog price \$36.75) Collection price **\$33.00.**

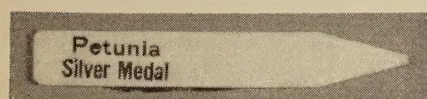
##### Sweet Sixteen General Annuals

Tr. pkt. each of the Sweet Sixteen "Heart of the Garden" annuals.

(Catalog price \$12.20) Collection price **\$11.00.**

### SWEET SIXTEEN WOOD POT LABELS

Use these clearly printed labels, available in all Sweet Sixteen varieties, plus other selected varieties (write for list). 4 x 5/8 in. Pkg. of 100 of any one variety, **70c**, net, prepaid. 1000 of any one variety, **\$6.00**, net, prepaid. Minimum order, 100 of one variety. For unprinted wood pot labels, see page 102.





# Catalog Notes...

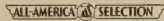
## General Index

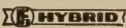
For detailed index, see inside back cover.	Pages
Flower Seeds .....	1- 61
Vegetable Seeds .....	62- 67
Plants .....	68- 83
Bulbs .....	84- 95
Containers .....	102-119

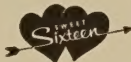
## Flower Seeds

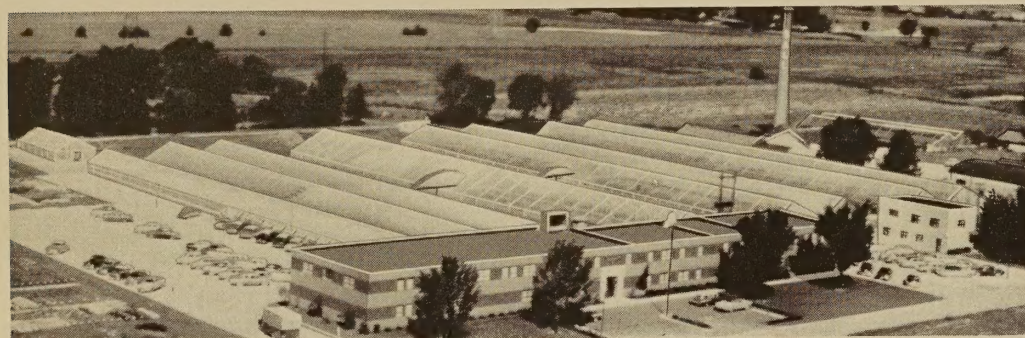
Annual and perennial lists are **combined** in alphabetical order, in each case annuals appear first, then perennials, which are marked with the following symbol:

**PERENNIAL**

**All-America Selections** winners are marked like this: 

**F<sub>1</sub> Hybrids** are marked with the following symbol: 

**Sweet Sixteen Selections** are indicated by this symbol: 



## A Line of Cultural Information

... appears at the head of the listing of each genus of flower seed. Example.

### ALSTROEMERIA (Lily-of-Peru)

<b>PERENNIAL</b> ( <i>A. chilensis</i> )	1600 S.	6-8 weeks	55°
Genus and species as described by the best available botanical reference.	Number of seeds per ounce	Usual time required for germination.	Recommended normal night temperature for best germination.

In cases where the number of seeds per ounce varies by variety, you will find "S. See below" in the space normally occupied by the number of seeds, and that figure will be given for each variety listed. These figures must NOT be accepted as indicating the number of plants to be expected. Under favorable germinating conditions most large seeds will germinate 60% to 70%. In figuring your seed requirements, keep in mind that it is also good practice to select only the most vigorous seedlings, except in the case of mixtures, when seedlings should be transplanted "as they come."

Most of the important flower seed varieties listed in this catalog are subject to rigid testing at West Chicago for both viability in germination and trueness to catalog description; for example, color, habit of growth, height, etc. Most of our annual trials and 100,000 ft. of glass at West Chicago are devoted to this program, coupled with similar practical testings and research in Mums, Carnations, bulb crops, etc.

## GENERAL SEED LIST

### ACHILLEA

**PERENNIAL** (*A. species*) S. See below 1-2 weeks 65-75°

- **Filipendula, Parker's Variety** (Cloth of Gold). 225,000 S. Large heads of golden yellow flowers on long stems; fine for cutting.
- **The Pearl** (Ptarmica). 170,000 S. 2½ ft. The standard double white for cutting.

Prices above 2, each: tr. pkt. (⅓ oz.), 30c; ⅛ oz., 70c; ¼ oz., \$1.25.

### ACHIMENES

**ANNUAL** (*A. species*) 2,000,000 S. 2-3 weeks 65-75°

**Mixture.** Brilliantly colored, trumpet-like flowers in velvety tones of red, violet and white. Makes a nice spring and summer pot plant. Culture same as Gloxinias. Tr. pkt. (1000 or more seeds), \$1.50.

### ACONITUM (Monkshood)

**PERENNIAL** (*A. Napellus*) 10,000 S.

Must be exposed to freezing temperature for normal germination.

**Napellus.** 4 ft. Dark blue; does best in partial shade. Tr. pkt. (⅓ oz.), 40c; ¼ oz., \$1.20; 1 oz., \$3.60.

### ACROCLINIUM

**ANNUAL** (*Helipterum roseum*) 8500 S. 2-3 weeks 65-75°

**Sensation Giants.** An extra large semi-double strain of brightly colored Strawflowers for cutting. Shades of rose, pink and white. Tr. pkt. (⅓ oz.), 25c; ¼ oz., 60c; 1 oz., \$1.80.

### AGATHAEA

**ANNUAL** (*Felicia amelloides*) 27,000 S.

Must be exposed to freezing temperature for normal germination.

**Coelestis** (Blue Daisy). 2 ft. Fairly tall and useful for cutting. Tr. pkt. (⅓ oz.), 30c; ¼ oz., 90c; 1 oz., \$2.70.

### AGERATUM

See page 6.

### ALOE

**ANNUAL** (*A. species*) S. See below 3-4 weeks 65-75°

**Variegata** (Tiger Aloe). 6500 S. 2-inch pot plants of this attractive green and yellow foliage plant can be produced in less than a year. A valuable item for florists. 100 seeds, \$1.65; 500 seeds, \$7.00; 1000 seeds, \$12.00. See Cactus, page 12.

### ALSTROEMERIA (Lily-of-Peru)

**PERENNIAL** (*A. chilensis*) 1600 S. 6-8 weeks 55°

**Chilensis.** Shades of pink, rose and red. Medium tall. For bedding and cut-flower use. Germination erratic. Tr. pkt. (⅓ oz.), 55c; ¼ oz., \$1.65; 1 oz., \$5.00.



ALOE VARIEGATA



## ALYSSUM

See page 6.

## AMARANTHUS

**ANNUAL** (*A. tricolor*) *S. See below 2-3 weeks 65-75°*

When planted outdoors, all *Amaranthus* prefer dry, sunny locations. Water very sparingly, if at all, after plants are established.

**Molten Fire.** 28,000 S. 4 ft. Attractively variegated deep red foliage. Tr. pkt. (1/16 oz.), **25c**; 1/4 oz., **70c**; 1 oz., **\$2.10**.

**Tricolor Splendens** (Joseph's Coat). 60,000 S. 3 ft. Beautiful foliage. Green, red and yellow. Tr. pkt. (1/16 oz.), **25c**; 1/4 oz., **60c**; 1 oz., **\$1.80**.

## ANCHUSA

**PERENNIAL** (*A. species*) *S. See below 3-4 weeks 65-75°*

Seed should be refrigerated for 72 hours before sowing.

**Dropmore Strain** (Italica). 1100 S. 5 ft. Nice blue for cutting. Tr. pkt. (1/8 oz.), **40c**; 1/4 oz., **75c**; 1 oz., **\$2.25**.

**Myosotidiflora.** 10,500 S. 12 in. May flowering. Forget-me-not-blue. Tr. pkt. (1/32 oz.), **45c**; 1/8 oz., **\$1.35**; 1/4 oz., **\$2.50**; 1 oz., **\$7.50**.

## ANEMONE

**PERENNIAL** (*A. species*) *37,000 S. 5-6 weeks 65-75°*

**Pulsatilla** (European Pasque Flower). 12 in. Beautiful violet-purple flowers on plants which are covered with silky hairs. Blooms in April-May; likes a dry location. Tr. pkt. (1/16 oz.), **50c**; 1/4 oz., **\$1.50**; 1 oz., **\$4.50**.

**St. Brigid Mixture.** Choice long-stemmed mixture of brilliant colors. Tr. pkt. (1/16 oz.), **40c**; 1/4 oz., **\$1.10**; 1 oz., **\$3.25**.

## ANTHEMIS

**PERENNIAL** (*A. Kelwayi*) *S. See below 3-4 weeks 65-75°*

**Kelwayi** (Hardy Marguerite). 85,000 S. 3 ft. Yellow Daisy flowers produced throughout the summer. 1/4 oz., **35c**; 1 oz., **\$1.10**.

**ST. JOHANNIS (NEW).** 45,000 S. 1 1/2 in., bright orange flowers on 9-12 in. stems. Especially good for cutting. Tr. pkt. (1/16 oz.), **35c**; 1/4 oz., **\$1.00**; 1 oz., **\$3.00**.

## AQUILEGIA (Columbine)

**PERENNIAL** (*A. species*) *15,500 S. 3-4 weeks 65-75°*

Well grown Columbines are of definite cut-flower value for retail growers. For outdoor growing space plants 12 to 18 inches apart. For forcing, pot up from the field the first year plants, storing in a cold house or frame until about February 1. Start in a low temperature, gradually increasing to around 50°.

**Coerulea** (Rocky Mountain Columbine). 18 in. Sky-blue with white corolla. Tr. pkt., **40c**; 1/4 oz., **\$1.25**; 1 oz., **\$3.75**.

**Crimson Star.** 18 in. Dark red with white corolla. Tr. pkt., **60c**; 1/8 oz., **\$1.75**; 1/4 oz., **\$3.00**.

• **Long-Spurred Mixture.** 2 ft. A well balanced blend with large flowers with long spurs. Tr. pkt., **40c**; 1/8 oz., **\$1.20**; 1/4 oz., **\$2.00**; 1 oz., **\$6.00**.

### • MCKANA'S GIANT

Large, extra long-spurred flowers 3 to 4 inches across in a gay mixture of colors. One of the showiest of all Columbines. Tr. pkt., **\$1.00**; 1/4 oz., **\$3.00**; 1 oz., **\$9.00**.

**Mrs. Nicholls.** 2 ft. Large-flowered, clear deep blue. Tr. pkt., **50c**; 1/8 oz., **\$1.50**; 1/4 oz., **\$2.75**; 1 oz., **\$9.00**.

**Mrs. Scott Elliott's Mixture.** 2 ft. An excellent long-spurred mixture. Tr. pkt., **50c**; 1/4 oz., **\$1.50**; 1 oz., **\$4.50**.

**Rose Queen.** 18 in. Rose with white corolla. Tr. pkt., **50c**; 1/4 oz., **\$1.50**; 1 oz., **\$4.50**.

**Snow Queen.** 2 ft. Creamy white flowers. Tr. pkt., **50c**; 1/4 oz., **\$1.50**; 1 oz., **\$4.50**.

## ARABIS (Rock Cress)

**PERENNIAL** (*A. species*) *120,000 S. 3-4 weeks 65-75°*

**Alpina Pink.** 12 in. Delicate pale pink. Tr. pkt., **45c**; 1/4 oz., **\$1.30**; 1 oz., **\$3.90**.

• **Alpina Snowcap.** 6 in. Dwarf, compact plants with dense masses of shining snow-white flowers. Blooms very early in spring. Tr. pkt., **40c**; 1/4 oz., **80c**; 1 oz., **\$2.75**.

## ARMERIA (Thrift)

**PERENNIAL** (*A. species*) *S. See below 3-4 weeks 65-70°*

**Alpina.** 32,000 S. 8 in. Dwarf, bright rose. Tr. pkt., **\$1.00**; 1/8 oz., **\$3.00**; 1/2 oz., **\$9.00**.

### • GLORY OF HOLLAND

Ball-shaped deep pink flowers about 1 1/2 inches in diameter, carried on straight, wiry stems 2 feet long. Fine for cutting. Blooms throughout the summer. Tr. pkt., **70c**; 1/8 oz., **\$2.10**; 1/2 oz., **\$6.30**.

## ASCLEPIAS

**PERENNIAL** (*A. tuberosa*) *4500 S. 3-4 weeks 65-70°*

**Tuberosa.** 3 ft. Showy, orange flowers. Requires well drained location. Freezing over winter helps germination. Tr. pkt., **35c**; 1/4 oz., **\$1.30**; 1 oz., **\$3.90**.

## ASPARAGUS

**ANNUAL** (*A. species*) *750 S. 4-6 weeks 70-80°*

We offer specialist-grown seed which germinates around 65% to 75%.

### Plumosus

### Sprengeri

**Prices** above 2, each: 100 seeds, **30c**; 250 seeds, **70c**; 1000 seeds, **\$2.50**; 5000 seeds, **\$10.00**.

## ASTERS

See pages 7-10.

## AUBRIETIA

**PERENNIAL** (*A. deltoidea graeca*) *150,000 S. 2-3 weeks 65-75°*

**Large-Flowered Mixture** (Monarch Strain). 6 in. Low growing, mat-like plants; similar to *Arabis* but with flowers in a wide range of colors from lilac to purple.

**Hendersoni.** Deep purple.

**Leichtlini.** Carmine-rose.

**Prices** above 3, each: tr. pkt., **45c**; 1/4 oz., **\$1.30**; 1 oz., **\$3.90**.

**Baby's Breath.** See *Gypsophila*, page 23.

**Bachelor Button.** See *Centaurea*, page 16.

## BALSAM

**ANNUAL** (*Impatiens balsamina*) *3300 S. 2-3 weeks 65-75°*

### • DOUBLE BUSH FLOWERING MIXTURE

15 in. Bright, showy, double flowers resembling *Camellias* are prominently displayed on bushy plants with dark green foliage. Makes a striking display, and is easily grown. Tr. pkt. (1/8 oz.), **40c**; 1/4 oz., **75c**; 1 oz., **\$2.25**.

Double Bush Flowering Balsam is also available in:

### Scarlet

### Rose

### Pure White

**Prices** above 3, each: tr. pkt. (1/8 oz.), **40c**; 1/4 oz., **75c**; 1 oz., **\$2.25**.

**Double Camellia-Flowered Mixture.** 2 ft. Bright colors. Tr. pkt. (1/8 oz.), **30c**; 1/4 oz., **50c**; 1 oz., **\$1.50**.

## BAPTISIA (False Indigo)

**PERENNIAL** (*B. australis*) *1700 S. 3-4 weeks 65-75°*

**Australis.** 3 ft. Sprays of pea-shaped, indigo-blue flowers. Tr. pkt., **40c**; 1/4 oz., **70c**; 1 oz., **\$2.10**.

## BEGONIAS

See page 11.





**AGERATUM, BLUE MINK**  
Large powder-blue flowers on early blooming, shapely plants.  
Fine for combinations and borders

## AGERATUM

### ANNUAL

(*A. mexicanum*)

200,000 S. 3 weeks 65-75°

Most seed-produced strains vary somewhat in habit but make satisfactory material for flat sales. Requires 60° for best growth.

- **Blue Bedder.** 12 in. Fairly uniform in growth and color with medium large, freely produced, bright blue flowers.

Tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60; 1 oz., \$5.00.

- **Blue Cap.** 10 in. Small, bright orchid-blue flowers freely produced on bushy plants. The most dwarf blue Ageratum.

Tr. pkt., 40c; 1/4 oz., \$1.20; 1 oz., \$3.60.



### ● BLUE MINK

12 in. Tetraploid. Large, powder-blue flowers are liberally borne on shapely plants. Pictured above. Early blooming and much more uniform than other varieties from seed.

Tr. pkt., 60c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$9.00.

- **Fairy Pink.** 12 in. Shades of lavender-pink.

Tr. pkt., 50c; 1/8 oz., \$1.00; 1/4 oz., \$1.85; 1 oz., \$6.50.

- **Golden Ageratum** (*Lonas inodora*). 128,000 S. 14 in. Large clusters of Ageratum-like golden yellow flowers. Very colorful for bedding or borders.

Tr. pkt., 40c; 1/16 oz., 80c; 1/8 oz., \$1.50; 1/4 oz., \$2.75.

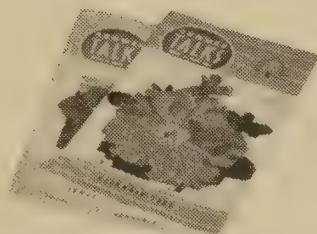
- **Imperial Dwarf White.** 12 to 15 in. Medium dwarf, creamy white.

Tr. pkt., 50c; 1/4 oz., \$1.25; 1 oz., \$4.00.

- **Midget Blue.** 12 in. Medium sized, clear blue flowers are freely carried on dense, small-leaved plants. Tr. pkt., 40c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$6.00.

- **Tall Blue.** 28 in. Medium sized, light blue. Tall strain for cutting.

Tr. pkt., 30c; 1/4 oz., 55c; 1 oz., \$1.65.



## "GROWER TALKS"

The only commercial monthly publication which is devoted **exclusively to flower growing**. Suggestions for items to grow, sowing dates, insect and disease controls, varieties, etc. Yours for 1 year for \$1.25; 3 years for \$3.50.

**Binder** for 24 issues of GROWER TALKS, \$2.00.

See page 45 for description of new binder.

## ALYSSUM

**ANNUAL** (*Lobularia maritima*)

90,000 S. 2 weeks 65-75°

All are delightfully fragrant and do well even in poor soils. Valuable for combinations, or bedding and edging.

### ● CARPET OF SNOW

(Snowcloth). Produces a very dense, flat mass of white flowers, 3 to 4 inches high by 8 to 10 inches across.

Tr. pkt., (1/4 oz.), 35c; 1 oz., \$1.00, 4 ozs., \$3.35.

- **Little Gem.** 5 in. Dense, rounded heads of white flowers; does not spread.

Tr. pkt. (1/4 oz.), 35c; 1 oz., \$1.00; 4 ozs., \$3.35.

- **Pink Heather** (All-America Selection Winner for 1959). 6 in. A dwarf, compact, Gem type Alyssum well covered with lavender-pink flowers. Interesting and unusual. Pictured below.

Tr. pkt. (1/16 oz.), 60c; 1/4 oz., \$1.80; 1 oz., \$5.50.



### ● ROYAL CARPET

(All-America Selection)

118,000 S. Violet-purple flowers are freely produced on plants about four inches high and ten inches across. Makes a nice border plant.

Tr. pkt. (1/16 oz.), 40c; 1/4 oz., \$1.30; 1 oz., \$3.90; 4 ozs., \$13.00.

- **Snowdrift** (*Maritimum tetraploid*). 12 in. Large, snowy white blooms on uniform plants. Satisfactory for cutting. Tr. pkt. (1/16 oz.), 30c; 1/4 oz., 90c; 1 oz., \$2.70.

- **Violet King.** 4 in. Dwarf plants, deeper in color and more compact than Violet Queen. Tr. pkt. (1/16 oz.), 45c; 1/4 oz., \$1.50; 1 oz., \$4.50; 4 ozs., \$15.00.

- **Violet Queen.** 5 in. Violet flowers borne on dwarf plants.

Tr. pkt. (1/16 oz.), 25c; 1/4 oz., 60c; 1 oz., \$1.80; 4 ozs., \$6.00.

### PERENNIAL (*A. saxatile*)

30,000 S. 3-4 weeks 65-75°

The two varieties following are perfectly hardy with us and make fine, free flowering rock garden or border plants.

- **Saxatile Compactum** (Gold Dust). 12 in. Flowers early May. Rich golden yellow.

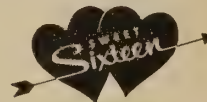
Tr. pkt. (1/4 oz.), 40c; 1 oz., \$1.20.

- **Saxatile Silver Queen** (*Sulphureum*). Light lemon-yellow.

Tr. pkt. (1/16 oz.), 40c; 1/4 oz., \$1.20; 1 oz., \$3.60.



**ALYSSUM, CARPET OF SNOW**  
An ideal border plant of pure white. Or for variety, try Royal Carpet (violet-purple) or Pink Heather, below.



BE SURE TO INCLUDE  
ALL OF THE  
SWEET SIXTEEN  
VARIETIES ON YOUR  
SPRING SEED LIST

### ALYSSUM, PINK HEATHER (Below)

A 1959 All-America Selection Award Winner, Pink Heather is a dwarf, compact Gem type with a profusion of lavender-pink flowers.





# Ball Asters

(WILT RESISTANT—12,000 S.)

SEE CULTURAL INSTRUCTIONS ON PAGE 9

**ANNUAL** (*Callistephus chinensis*) 12,000 S. 2-3 weeks 65-75°

Growing good quality Asters from February to November in northern greenhouses, and throughout the winter in southern areas, both under glass and in the open, is a regular practice with an increasing number of growers each year. Asters require only additional lights, steam sterilized soil, and 55 to 60° temperature in winter to grow them to perfection—and they'll hold up in the display case or home nearly as long as Mums, an important point.

One thing is essential, though; a strain bred especially for florists' use. The Ball Aster fills this requirement perfectly.

- **White Ball.** Large flowers (3½ to 4 in.), exceptional doubleness, and fine, stiff stems. Blooms normally August 25.
- **Rose Ball.** Rich, deep rose with fully double (3½ to 4 in.), incurved flowers. Blooms normally August 25.
- **Purple Ball.** Large incurved flowers (3½ to 4 in.), of bright purple. Blooms normally August 20.
- **Pink Ball.** Large (3½ to 4 in.), fully double shell-pink flowers. Blooms normally August 20.
- **Azure Ball.** Fully double (3 to 3½ in.) flowers of clear light blue. Blooms normally August 20.
- **Phlox Ball.** Fully double, medium large flowers (3 to 3½ in.) of soft peach-blossom-pink. Blooms normally September 1.

Prices above 6, each: tr. pkt., \$1.75; ¼ oz., \$3.20; 1 oz., \$9.60.

**COLLECTION:** 1 tr. pkt. each of above named varieties: 6 pkts., \$9.50.



## ● BALL FLORISTS MIXTURE

A formula blend of all the foregoing extra double Ball type Asters. Excellent for bedding or cutting. Tr. pkt., \$1.75; ¼ oz., \$3.20; 1 oz., \$9.60.



To maintain the full doubleness and high quality of these varieties calls for annual production of specially selected planting stock. Without this constant yearly program, these strains will rapidly revert to the old open-centered types. That's why it's important to buy originator's seed, identified by the symbol at left. All other is at least 2 generations removed from the originator's controlled line-breeding. All the following varieties are **Ball Originator Seed**.

**NOTE:** Because of their extreme doubleness the true originator's strains of these Asters are shy seeders and are sometimes in short supply. Order early and be sure of your supply.

Due to crop failure, we are unable to offer **Earliana Rose** and **White** this year. We plan to list them again in '61.



## BALL ASTERS

The finest cut flower Asters available to the florists today. Try them for off-season crops for extra profits.



## Wilt-Resistant Asters — Continued

### ROYAL

Bloom normally just ahead of the American Branching class.

- **Azure-Blue.** A fine commercial cut-flower variety.
  - **Ball Deep Rose.** Long-stemmed, bright deep rose.
  - **Ball Deep Purple.** A rich, deep color; long stems.
  - **Ball White Early.** A good resistant white.
  - Shell-Pink.** A clear shade of pastel pink.
  - Royal Mixture.**
- Prices above 6, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00; 4 ozs., \$7.00.

### QUEEN of the MARKET

Early August-flowering class; rather short-stemmed. Partly resistant. We much prefer the new fully double Ball Strains which can be flowered at this season by additional early lighting. See page 9 for lighting schedules.

- Azure-Blue.** A clear, light lavender-blue.
  - Deep Rose.** Same color as Ball Deep Rose.
  - Flesh-Pink.** Shell-pink; deepening as it matures.
  - White.** The earliest cut-flower white.
  - Queen of the Market Mixture.**
- Prices above 5, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00; 4 ozs., \$7.00.

### KING or NEEDLE (Non-Resistant)

Attractively quilled petals give these flowers hardness and durability for shipping. Blooms normally late August.

- Lavender.** Good commercial color.
  - Rose.** A fine, deep rose-pink.
  - Salmon.** An unusual shade.
  - Shell-Pink.** Soft salmon-pink.
  - Violet.** A rich and striking color.
  - White.** Popular market strain.
  - King Mixture.**
- Prices above 7, each: tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.



PRINCESS MARGARET



### YELLOW DUCHESS

A pure yellow with large incurved flowers. Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.

### AMERICAN BRANCHING

(Early Beauty)

The standard long-stemmed, midseason class, flowering normally in late August.

- Heart of France.** Distinctive scarlet-crimson. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Early Beauty Silvery Rose.** Fine light rose. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.

- **Azure-Blue.** An excellent, clear light blue.
- **Ball White Late.** Popular midseason white.

- Deep Rose.** Long stems and large flowers.
- Purple.** Rich violet-purple. Long-stemmed.
- Semple Pink.** Standard shell-pink variety.
- Sensation.** Deep crimson. A favorite in the South.

### American Branching Mixture.

Prices above 7, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00; 4 ozs., \$7.00.

### PRINCESS

These types have crested or cushioned Anemone centers, forming fairly hard, medium sized flowers. Normal blooming, late August.

- Alice.** Clear azure-blue.
- **Anne.** Light peach-blossom-pink.
- **Elizabeth.** Fine pure white.
- Goldilocks.** Creamy yellow.
- **Margaret.** Long-stemmed, deep rose.
- **Victoria.** Bright scarlet; the reddest of all Asters.

**Princess Mixture.** Formula blend of the above varieties.

Prices above 7, each: tr. pkt., 45c; ¼ oz., \$1.30; 1 oz., \$3.90.

### SHAGGY

This includes the Early California Giants and the Cregos. Both have interlaced petals producing a fluffy effect. Blooming dates indicated are for normal season.

**California Giant Dark Purple.** Highly resistant, rich purple. Sept. 25.

- **Early Giant Light Blue.** Extra large shaggy flowers of clear, light blue. Aug. 20.

**Early Giant Peach Blossom.** Pleasing light pink. Aug. 20.

- **Early Giant Rose Marie.** An excellent large flowered, bright deep rose. Aug. 20.

**Early Giant White.** Fluffy, pure white flowers. Aug. 20.

### Early Giants Mixture.

Prices above 6, each: tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.

- Crego Azure-Blue.** Fine light blue. Sept. 10.
- Crego Deep Rose.** Large-flowered. Sept. 10.
- Crego Orchid.** Orchid-lavender. Sept. 10.
- Crego Purple.** A rich, bright color. Sept. 10.
- Crego Shell-Pink.** Light clear pink. Sept. 10.
- Crego White.** Excellent pure white. Sept. 10.
- Crego Mixture.**

Prices above 7, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00; 4 ozs., \$7.00.

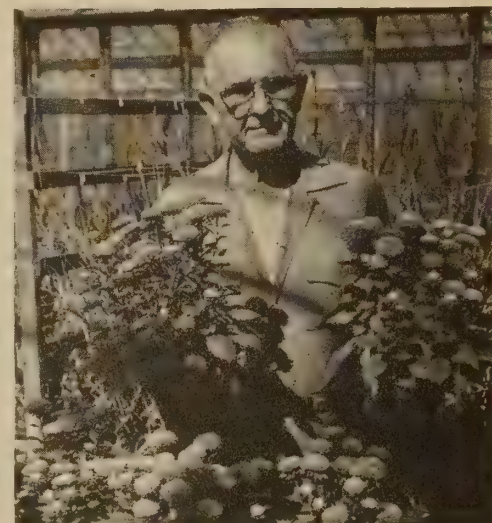
### BOUQUET

A class of upright branching wilt-resistant Asters developed for the cut-flower market. 24-inch plants carry 3-3½-inch, fully double flowers at the top to be cut as one bunch. Blooms normally, mid-August.

White	Scarlet	Rose
Azure-Blue	Crimson	Rose-Pink

- **Powderpuff Mixture.** A showy blend of the above and other colors in this class.

Prices above 7, each: tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.



Some nice looking pot Asters grown by Pud Averill, Snohomish, Washington (Pud in photo). Seed was sown thinly right after Decoration Day, graded seedlings potted 5 per 6-inch pot, photo made September 19. Pud was quite enthused about the plants, realized \$1.25 wholesale, \$3.00 retail. Only problem—some unevenness in blooming date. He hopes to improve this another year by Jiffy-Potting the seedlings (2¼-in.) and panning 2¼'s instead of seedlings.





Picture at left shows Vic Ball and Phil Jones looking over the Aster flowering trials at West Chicago. Extensive trials such as this are flowered in our greenhouse each year to insure that the seed you buy is true to type and of the top quality for which Geo. J. Ball, Inc. is justly famous.

# Greenhouse and Outdoor Asters

## GREENHOUSE ASTERS

Many growers have written us to say that their spring greenhouse Aster crops were the best paying crops that they had on their place. While Asters can be flowered any month of the year, the spring and early summer months seem to be the most profitable. The only important requirements are: 60° night temperatures, and additional lighting, which must be supplied continuously from the seedling stage until plants are 20 to 24 inches tall. The only exception is the period from May 1 to August 20, during which day length is long enough. 60 watt bulbs with reflectors, spaced 5 feet apart, or the lighting set-up you use for Mums is satisfactory. Light must be turned on from sundown to 10:00 P. M. daily, or for four hours in the middle of the night.

Spacing is usually 8x8 inches. White Ball, Pink Ball and Rose Ball are especially desirable for off-season culture. Azure Ball, and Purple Ball do equally well, but these colors will be wanted in lesser quantity. Use sterilized soil for best results.

The schedule below works out satisfactorily in most areas, although there is more variation from year to year than with Mums.

## OUTDOOR CULTURE

"Resistance" to Aster wilt does not mean complete "immunity"! Even the most resistant strains may eventually wilt in thoroughly infested soil, although they are far more satisfactory than non-resistant strains. Our past experience indicates that changing the location of the Aster planting regularly, or steam sterilizing, is a worth-while safety precaution. Pano-drench has proven particularly helpful in overcoming damp-off. We sow them 6 weeks before planting-out date. Three weeks after sowing, the seedlings go into Jiffy-Pots or plant bands; three weeks later they're ready for planting out or benching. We space them a foot apart each way in beds so that conventional wire and string may be used for supports. We find cloth house protection a necessity to prevent leaf hoppers from spreading yellows, and to keep plants from becoming too hard.

### OPERATION

### TIME OF YEAR

Sow seed	July 15	Aug. 15	Sept. 10	Oct. 20	Dec. 20	Feb. 1	Mar. 15	Apr. 20	May 20	June 10	June 20	July 10
Band seedlings	Aug. 10	Sept. 10	Oct. 1	Nov. 15	Jan. 10	Feb. 20	Apr. 1	May 10	June 10	July 1	July 15	Aug. 1
Bench plants	Sept. 15	Nov. 1	Dec. 1	Jan. 1	Mar. 1	Apr. 1	May 15	June 15	July 15	Aug. 1	Aug. 20	Sept. 1
Approx. flwg. date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.

## Wilt-Resistant Asters—Continued

### MISCELLANEOUS MIXTURES

- **All Purpose Mixture.** A formula blend of the leading, all double cut flower varieties and types for those who want the most in colors and blooms over a long period.  
Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00; 4 ozs., \$7.00.

- **Burpeeana** (Non-Resistant). Extra early bedding type mixture which flowers normally in late July. Large, fluffy, Crego type flowers on 18-inch stems. Base branching. *Originator's seed.*  
Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.

**California Super Giant Mixture** (Non-Resistant). Choice blend of large, fully double, "shaggy-petaled" flowers. Long-stemmed. Late Sept.  
Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.25.

**Giant California Sunshine Mixture** (Non-Resistant). An attractive mixture of large flowered Anemone type blooms with small center cushions and long ray petals.  
Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

**Imbricated Pompon Mixture** (Non-Resistant). Small, rounded flowers produced on upright growing, compact plants about 15 inches tall. Good for pot plants. Tr. pkt., 45c; ¼ oz., \$1.30; 1 oz., \$3.90.

### SINGLE ASTERS

**Single Base-Branching Mixture.** Upright, base-branching plants.  
Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50; 4 ozs., \$5.00.

**Single Rainbow Mixture.** (Special Florist's Strain). An attractive mixture of medium sized, single blooms.  
Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50; 4 ozs., \$5.00.

### PERENNIAL ASTERS

**PERENNIAL** (*A. species*) 19,000 S. 2-3 weeks 70-80°  
**Alpinus, Finest Mixture.** 15 in. 1½ in. lavender, blue and white flowers. Tr. pkt., 55c; ¼ oz., \$1.10.

**Hardy Large-Flowered Mixture.** 4 ft. Fall flowering. A perfectly hardy and attractive assortment.  
Tr. pkt., 55c; ¼ oz., \$1.25; ½ oz., \$2.25.

- **Wartburg Star** (Subcoeruleus). Clear lavender-blue flower with yellow center. For border or cut flowers.  
Tr. pkt., 75c; ¼ oz., \$2.00; ½ oz., \$6.00.

SEE NEXT PAGE FOR POT ASTERS



# DWARF ASTERS

## For Pot Plants

The popularity of pot plant Asters has increased substantially during the past year. Some growers have reported prices rivaling those of pot Mums for well grown plants. In addition to their lasting qualities—often as long as three weeks in the average home—they offer a variety of colors which can't be had in pot Mums. Bright, true rose-pinks, lavenders, and purples are available in addition to pure white and red shades.

We've been working with pot Asters for five years now, both selecting better strains and growing them at different seasons. Our recommendations at this time are outlined in the following chart:

### POT ASTER SCHEDULES

These schedules are based on our West Chicago experience, using 60° night temperature, and pertain only to the classes listed.

Sowing Date	Potting Date	Lights On	Lights Off	Hours of Light	Class	Blooming Date
Sept. 3	Sept. 17	Sept. 10	When color shows	Note 1	Dwf. Queen	Jan.
Sept. 10	Sept. 24	Sept. 17	When color shows	Note 1	Dwf. All Saints	Feb.
Oct. 1	Oct. 22	Oct. 8	When color shows	Note 1	Dwf. All Saints	Mar.
Nov. 5	Nov. 26	Nov. 12	When color shows	Note 1	Dwf. All Saints	Apr.
Dec. 3	Dec. 24	Dec. 10	May 5	Note 1	Dwf. All Saints	May
Jan. 14	Feb. 4	Jan. 21	May 5	Note 1	Dwf. All Saints	June
Feb. 11	Mar. 3	Feb. 18	May 5	Note 1	Dwf. All Saints	July
Mar. 17	Apr. 7	Mar. 24	May 5	Note 1	Dwf. All Saints	Aug.
Apr. 14	May 5	Apr. 21	May 5	Note 1	Dwf. All Saints	Sept.
May 14	May 28	Aug. 20	When color shows	Note 1	Dwf. All Saints	Oct.
July 9	July 23	Aug. 20	When color shows	Note 1	Dwf. Queen	Nov.
Aug. 6	Aug. 20	Aug. 20	When color shows	Note 1	Dwf. Queen	Dec.

#### ● DWARF ALL SAINTS

Rose Dark Blue Light Blue Scarlet  
Salmon-Pink White Mixture  
Prices above 7, each: tr. pkt., 85c; ¼ oz., \$2.50; 1 oz., \$7.50.

#### ● DWARF QUEENS

Deep Blue Deep Scarlet Pink Rose  
Light Blue White Mixture  
Prices above 7, each: tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.



#### ALL SAINTS ASTERS

Newest of the new in pot Asters. Note the compact, shapely habit of Scarlet, Salmon-Pink and Dark Blue, pictured above. The other colors are equally attractive. Dwarf Asters make unusually nice plants, singly in 3- or 4-inch pots or panned in 5's and 6's.

**NOTE 1—Lighting:** Use 60 watt bulbs with reflectors. Space lights 5 ft. apart, 3 ft. above bench. Lights-on date is seed emergence date. Lighting is required from August 20 to May 5, and may be done by: lighting 4 hours each night throughout this period (from sundown to 10 P.M., or preferably from 10 P.M. to 2 A.M.), or by controlled lighting (Mum schedule):

Hours per night	Time
3	Aug. 20-Oct. 31
4	Nov. 1-Nov. 30
5	Dec. 1-Jan. 31
4	Feb. 1-Feb. 28
3	Mar. 1-May 5

**NOTE 2—Shading:** Plants can be shaded (between Apr. 1 and Sept. 15) from the time the terminal buds are the size of a dime until the laterals show color. This will bring the laterals into flower more nearly the same time that the terminal opens and thereby increase quality. Use **ONLY** Black Sateen Cloth (Mum Black Shade Cloth).

### OTHER POT ASTERS

#### KIRKWELL

Somewhat taller than Dwarf Queens or Dwarf All Saints.

Light Pink Deep Rose Crimson Dark Blue Mixture  
Prices above 5 varieties, each: tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

● **Gerhart Hauptmann.** Bushy, compact plants heavily covered with 2-inch, ball-like, double flowers of rich, cinnabar-red.  
Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

#### ● BELLS of IRELAND

**ANNUAL** (*Molucella laevis*) 42,000 S. 3-5 weeks 50°

This subject is immensely popular for floral arrangements (see page 15). Plants are base-branching with 2-ft. stems closely set with large, bell-like sheaths of translucent green. May be used fresh or dried, and is easily grown in greenhouse benches, in pots, or outdoors.  
Tr. pkt., 40c; ¼ oz., \$1.00; 1 oz., \$3.00.

#### BROWALLIA

**ANNUAL** (*B. Species*) S. See below 2-3 weeks 65-75°

Good bedding plant for shade and semi-shade.

● **Speciosa Major.** 111,000 S. 1½-inch violet-blue flowers on 10- to 12-inch plants. The standard variety for pots.  
Tr. pkt., \$1.20; ¼ oz., \$3.60; ½ oz., \$6.60; ¾ oz., \$12.00.

**Viscosa Compacta Sapphire.** 240,000 S. Compact growth with a profusion of small light-eyed blue flowers.  
Tr. pkt., 40c; ¼ oz., \$1.10; ½ oz., \$2.00; ¾ oz., \$3.80.



#### ← BELLIS (English Daisy)

**PERENNIAL** (*B. perennis var. monstrosa*)

135,000 S. 1-2 weeks 65-75°

A fine double strain of this popular English Daisy for early summer bedding and for spring combinations. Though a perennial, it is commonly grown as an annual like Pansies.

Red Rose White Salmon  
Prices above 4, each: tr. pkt., 60c; ⅛ oz., \$2.00; ¼ oz., \$3.75.  
Mixture. Tr. pkt., 60c; ⅛ oz., \$1.80; ¼ oz., \$3.30.

#### BROOM

**PERENNIAL** (*Cytisus var.*) 5500 S. 6-8 weeks 70-80°

**Choice Mixture.** 4 to 5 ft. Vigorous, hardy shrubs producing raceme-like flowers in a range of bright colors. Flowers second season from seed.

Tr. pkt., 50c; ⅛ oz., \$1.25; ¼ oz., \$2.35.



# Begonias

## FIBROUS ROOTED

ANNUAL (*B. semperflorens*)

1,000,000 S. 2-3 weeks 65-75°

Why are Begonias increasing in universal popularity? Better varieties, including the new F<sub>1</sub> Hybrids, are playing their part in keeping this versatile plant close to the top of the list of seed grown pot plants. Begonias are equally "at home" in 5-inch pots, as less expensive plants in 3- or 4-inch pots, and in combinations of all sorts. In addition, the stronger growing varieties, especially the F<sub>1</sub> Hybrids, make good bedding plants even in full sun—and for partially shaded spots they are ideal.

**Culture:** Use neutral (non-acid) peat for germination; no soil covering over the seed. Keep surface of flat moist. Use half peat, half soil for potting. They must have 60° to keep them moving—and greenhouse shade in summer. Sow December-January for nice 3-inch plants for May bedding sales and combination work.

### NEW (F<sub>1</sub> HYBRID) CINDERELLA STRAIN

**Cinderella Rose** (*A Ball origination*). A remarkable new type of Fibrous Rooted Begonia (pictured at right) bearing bright rose-pink flowers each with a large, attractive, **golden yellow center**. This type has been available before now only from cuttings. About half the plants are as described, the balance being perfectly salable regular type Begonias.

**Cinderella White** (*A Ball origination*). Identical to Cinderella Rose except for its glistening white flowers with contrasting bright gold centers.

**Cinderella Mixture** (*A Ball origination*). The above two colors plus shades of lighter pink are included in this showy blend.

**Prices** above 3, each: ½ tr. pkt. (1000 S.), \$1.75; tr. pkt. (2000 S.), \$3.00; ½<sub>128</sub> oz., \$9.00.



CINDERELLA ROSE

A remarkable new type of Fibrous Rooted Begonia bearing bright rose-pink flowers, each with a large, attractive, golden yellow center. Also available in white and a mixture.

## REGULAR STRAIN

### DWARF (4 to 6 Inches)

- **Adeline**. Very free flowering bright pink; dwarf and compact. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.25; ½<sub>32</sub> oz., \$6.00.
- **Ball Deep Rose**. In winter the color is a deep rosy red which gradually fades to a luminous pink during warm weather. *Ball Orig. Seed*. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.25; ½<sub>32</sub> oz., \$6.00.
- **Ball Red**. Medium large flowers of bright true scarlet are freely produced on fairly dwarf plants. *Ball Orig. Seed*. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.25; ½<sub>32</sub> oz., \$6.00.
- **Ball White**. Rather small flowers but very freely produced. *Ball Orig. Seed*. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.00; ½<sub>32</sub> oz., \$5.50.
- **Flamingo**. Bi-colored white with pink edge. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$4.50.
- **Luminosa Compacta**. Dwarf, free flowering scarlet-red. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.00; ½<sub>32</sub> oz., \$5.50.
- **Saga**. Extra dwarf and dense growth. Small bright red flowers. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$4.00; ½<sub>32</sub> oz., \$7.50.
- **Snowbank**. Large, glistening white flowers are carried on dense growing plants. The best white. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.75; ½<sub>32</sub> oz., \$5.00.
- **Dwarf Varieties Mixture**. Our own formula mixture of dwarf varieties. Tr. pkt., \$1.00; ¼<sub>64</sub> oz., \$2.50; ½<sub>32</sub> oz., \$4.50.

### BEGONIA, BALL RED

A true red Begonia on dwarf, well shaped plant. Free flowering.



### DWARF BRONZE-LEAVED VARIETIES

- **Ball Dwarf Carmen**. Compact habit with rich bronze leaves and light pink flowers. *Ball Orig. Seed*.
  - **Dwarf Indian Maid**. The popular scarlet flowers and bronze foliage of Indian Maid in dwarf and compact form.
  - **Frosty**. Pure white flowers contrasting vividly with rich bronze-colored leaves. Dwarf and compact. The first bronze-leaved Begonia with white flowers.
  - **Bronze-Leaved Varieties Mixture**. Dwarf bronze-leaved plants with red, pink and white flowers. A formula blend.
- Prices** above 4, each: tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.50; ½<sub>32</sub> oz., \$6.50.

### INTERMEDIATE (6 to 10 Inches)

- **Carmen**. Bright rose-pink flowers with rich bronze leaves. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.75; ½<sub>32</sub> oz., \$5.00.
- **Indian Maid**. Foliage a deep lustrous bronze with scarlet flowers. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.75; ½<sub>32</sub> oz., \$5.00.
- **Luminosa**. Very attractive and popular bright red with green foliage tipped with red. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$3.00; ½<sub>32</sub> oz., \$5.50.
- **Scandinavia Pink**. Very free flowering bright rose-pink. Fine bushy habit. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.75; ½<sub>32</sub> oz., \$5.00.
- **Scandinavia Red**. Identical to the above except for its bright red flowers. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.75; ½<sub>32</sub> oz., \$5.00.
- **Scandinavia White**. A white Scandinavia selection. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.75; ½<sub>32</sub> oz., \$5.00.
- **SPARKLER**. Large flowers of brilliant orange-salmon with each petal base a contrasting creamy white. The only true salmon Begonia we have ever seen. *Ball Orig. Seed*. Tr. pkt., \$1.50; ¼<sub>64</sub> oz., \$3.25; ½<sub>32</sub> oz., \$6.00.

**White Pearl**. Medium sized white flowers with green leaves, tinged pink; reddish stems. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.50.

**Intermediate Varieties Mixture**. Made up of the above separate colors. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.25; ½<sub>32</sub> oz., \$3.75.

### TALL (Over 10 Inches)

- **Christmas Cheer**. Large flowered, deep rose-red. Tr. pkt., \$1.00; ¼<sub>64</sub> oz., \$2.00; ½<sub>32</sub> oz., \$3.75.
- **Masterpiece**. Extra large flowered, light pink. Tr. pkt., \$1.25; ¼<sub>64</sub> oz., \$2.25; ½<sub>32</sub> oz., \$4.00.
- **Silver Wings**. Extra large, pure white flowers. *Ball Orig. Seed*. Tr. pkt., \$1.00; ¼<sub>64</sub> oz., \$2.00; ½<sub>32</sub> oz., \$3.75.
- **Tall Varieties Mixture**. A formula mixture of the above strong growing sorts. Tr. pkt., \$1.00; ¼<sub>64</sub> oz., \$2.00; ½<sub>32</sub> oz., \$3.75.

BEGONIAS CONTINUED ON PAGE 12.



# Begonias

## FIBROUS ROOTED **(F)HYBRID** BEGONIAS

Seed of these varieties is produced by the same method as Hybrid Snaps and Petunias. For absolute uniformity they're unexcelled, and their Hybrid vigor makes them better adapted to outdoor bedding use than the older inbred varieties. Why not try some this year?

- **Lucifer.** Brilliant scarlet flowers with deep bronzy foliage. This F<sub>1</sub> Hybrid Begonia makes a good outdoor bedding plant. *Originator's Seed.* Tr. pkt., \$1.50.
- **Pink Pearl.** Resembles Adeline in flower size, rich pink color and uniformly dwarf, compact growth. *Originator's seed.* Tr. pkt., \$1.50.
- **Pink Profusion.** A vigorous, dense grower with freely produced coral-pink flowers and green leaves with red veins. Did exceptionally well in outdoor trials exposed to full sun and high temperatures. Try this for bedding. Tr. pkt., \$1.50.
- Pink Tausendschon.** Dwarf. Bright pink; closely resembles Adeline and Pink Pearl in habit. *Originator's seed.* Tr. pkt., \$2.00.
- Red Tausendschon.** Same as Pink Tausendschon except for clear red color. *Originator's seed.* Tr. pkt., \$2.00.
- **Red Pearl.** Dwarf. Identical to Pink Pearl except for its Luminosa red color. *Originator's seed.* Tr. pkt., \$1.50.
- RED WONDER (NEW).** Extra dwarf and free flowering bright red. Bred for heat resistance. *Originator's seed.* Tr. pkt., \$2.00.
- ROSE WONDER (NEW).** Identical to Red Wonder except for its rich rose-pink color. *Originator's seed.* Tr. pkt., \$2.00.
- White Tausendschon.** Same as the above Tausendschon varieties except for its pure white color. Tr. pkt., \$2.00.
- **Stuttgart.** Bright pink flowers with rich bronze foliage. Because of its Hybrid vigor, this variety is well suited for outdoor bedding use. *Originator's seed.* Tr. pkt., \$1.50.

### ● ORGANDY MIXTURE

An excellent mixture of F<sub>1</sub> Hybrids in shades of red, pink and white. Plants are uniform in habit and their hybrid vigor makes them well adapted for outdoor bedding, even in full sun. This outstanding Begonia blend has been granted an Honorable Mention and a Special Award by the American Begonia Society. Tr. pkt., \$1.50; 5 tr. pkts., \$6.75.

## TUBEROUS ROOTED

Superb Camellia-flowered, double strains from one of the world's foremost Tuberous Begonia specialists. Sow Dec.-Feb. for May-June sales. Need 65-75° for good germination and early stages of growth.

Red Scarlet	Orange Rose	Salmon Copper	Yellow White
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Prices above 8 separate colors, each: ½ tr. pkt., \$1.75; tr. pkt., \$3.00.

- **Tuberous Rooted Double Mixture.** Camellia-flowered. 90% good doubles. Gorgeous colors. ½ tr. pkt., \$1.75; tr. pkt., \$3.00.

## OTHER BEGONIAS

**Pendula Mixture (Lloyd).** Pendulous. Double flowers, about 2 inches, in shades of scarlet, rose, salmon and white. Fine for hanging baskets. Tr. pkt., \$3.00.



## CACTUS

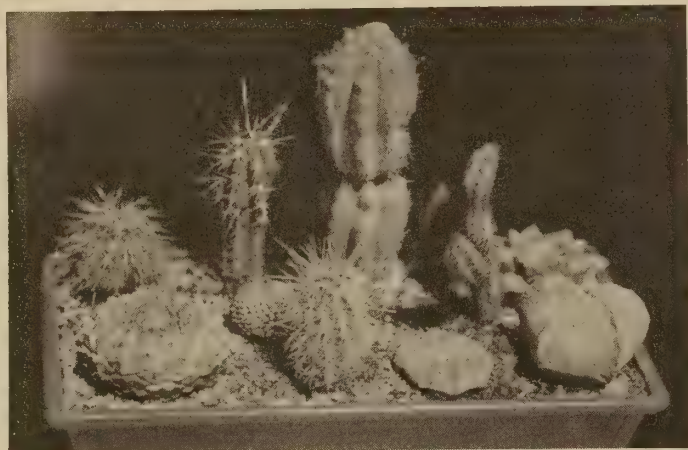
ANNUAL

8,000-12,000 S. 6 weeks 70-75°

**All Sorts Mixture.** (Pictured below). Many unusual varieties are included in this choice blend.

Tr. pkt., 65c; ½ oz., \$2.00; ½ oz., \$6.00.

Also see Aloe, page 4.



CACTUS—ALL SORTS MIXED

## CALCEOLARIAS

ANNUAL (*C. herbeahybrida*)

600,000 S. 2-3 weeks 65-75°

Calceolarias aren't at all difficult to grow from seed if a few simple requirements are met. In sowing use only loose, sterilized material—temperature 60°. The seed is very fine and no soil covering should be used. After seedlings are well up 50° will suit them nicely. When large enough to handle, they should go into small Jiffy-Pots or bands—later into 4- or 5-inch pots for finishing. A regular insect control program is essential (aphis will wreck them in no time). We spray regularly with Parathion. From late Feb. on they'll need some shade. Water only when needed; "wet feet" will cause yellowing of foliage.

- **Extra Early Tigered.** Solid heads of medium large flowers on dwarf plants; good color range. It blooms nearly a month before other varieties, costs less to grow. *Ball Orig. Seed.* Tr. pkt., \$2.00; ¼ oz., \$4.00; ¼ oz., \$7.20; ½ oz., \$13.00.
- **Grandiflora Dwarf Mixture.** Extra large (2-2½ in.) flowers in unusual and striking colors are carried on fairly dwarf plants. Tr. pkt., \$1.25; ¼ oz., \$2.75; ½ oz., \$5.00.
- **Hybrid Mixture.** **(F)HYBRID** Showy reds and rich yellows. ½ tr. pkt., \$1.75; tr. pkt., \$3.00.

**Rugosa Mixture.** Large heads of quite small flowers in a good color mixture. Tr. pkt., \$1.25.

### ● BALL MULTIFLORA NANA MIXTURE

Large heads of medium sized flowers in brilliant reds, yellows and intermediate shades. The dwarf plants are wiry in growth with small, durable leaves which make for ease in handling. See this in color on page 14. *Ball Orig. Seed.*

Tr. pkt., \$2.00; ¼ oz., \$4.00; ¼ oz., \$7.20; ½ oz., \$13.00.



## CALENDULA

ANNUAL (*C. officinalis*)

3000 S. 2-3 weeks 65-75°

### GREENHOUSE VARIETIES

Ball Calendulas were originated and developed by Geo. J. Ball as his first contribution to the long list of "Flower Seeds for Florists" which our firm has introduced to the florist trade in the past 50 years. Constant selection and breeding keep the strains in top shape. *Ball Orig. Seed.* This long-stemmed class will flower freely during the spring months from a January sowing. Sow Aug.-Sept. for mid-winter cutting.

- **Ball Improved Long Orange.** Bright orange with light eye.

**Ball Masterpiece.** Deep glowing orange with dark eye.

**Ball lemon Queen.** Lemon-yellow with dark brown eye.

- **Ball Gold.** Deep golden yellow with light eye.

Prices above 4, each: tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.

**Ball Formula Mixture.** Carefully made up of our named varieties with fully half orange.

**Ball Art Shades Mixture.** Contains many original and unusual shades and interesting bicolors.

Prices above 2, each: tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.40; 4 ozs., \$7.20.

### BEDDING VARIETIES

Showy for bedding where summer heat is not excessive.

#### PACIFIC BEAUTIES

These improved Calendulas are more resistant to summer heat than the ordinary bedding class. *Originator's seed.*

**Apricot Beauty.** Attractive two-toned rich apricot.

- **Lemon Beauty.** A pure lemon-yellow; wide petals.

- **Persimmon Beauty.** Brilliant, true persimmon-orange.

- **Pacific Beauty Mixture.** A blend of the above three.

Prices above 4, each: tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

#### REGULAR BEDDING VARIETIES

**Lemon Queen.** Light lemon-yellow.

**Orange King.** Deep orange with dark eye.

**Ball Bedding Mixture.** Well proportioned dwarf mixture.

Prices above 3, each: tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.50.

#### CRESTED (NEW)

Large, Anemone-type flowers with a double row of ray petals surrounding the attractive center cushions. The dark-eyed flowers have dark cushion tips. This strain is true to type, including both light and dark eyes.

Orange

Yellow

Mixture

Prices above 3, each: tr. pkt. (1/16 oz.), 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

## CALLIOPSIS

ANNUAL (*Coreopsis tinctoria*)

90,000 S. 2-4 weeks 65-75°

Fairly dwarf and very free flowering bedding plants. This is a showy item that we feel every bedding plant grower should try.

**Dwarf Mixture.** 6-8 in. Attractive, dwarf, compact mixture of red and yellow shades. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$1.80.

## CAMPANULA (Bell Flower)

ANNUAL (*C. species*)

50,000 S. 2-3 weeks 65-75°

**Annual Canterbury Bells Mixture.** 2 ft. An annual form of the well known perennial, flowering 6 months from sowing.

Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

PERENNIAL (*C. species*)

S. See below 2-3 weeks 65-75°

**CARPATICA.** 350,000 S. 12 in. Wide, upright, cup-shaped flowers are borne on slender, erect stems. Plants are leafy, compact clumps.

**Cullinmore Mixture.** Contains many new colors in this dwarf class. Tr. pkt., 60c; 1/8 oz., \$1.50; ¼ oz., \$2.80.

### ROCK GARDEN BLEND

Desirable, low-growing kinds in a wide range of Campanula colors. Tr. pkt., 75c.

**MEDIUM CALYCANTHEMA** (Cup-and-Saucer Type). 120,000 S. 3 ft. Biennial. Both this and the following (Medium Double) are easily forced for spring greenhouse cut flowers.

**Dark Blue Light Blue Rose White Mixture**

Prices above 5, each: tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.40.

**MEDIUM DOUBLE** (Canterbury Bells). 102,000 S.

**Formula Mixture.** Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.40.

**PERSICIFOLIA.** 340,000 S. 2½ ft. Perennial. 1-inch, bell-shaped flowers on stiffly erect stems. 15-inch spikes.

**Telham Beauty.** Large bells of China blue.

Tr. pkt., 40c; 1/8 oz., \$1.00; ¼ oz., \$1.85.

## CANDYTUFT

Geo. J. Ball INC.

ANNUAL (*Iberis coronaria*)

9500 S. 1-3 weeks 65-75°

### HYACINTH-FLOWERED.

#### BALL GIANT WHITE

This is an improved greenhouse-grown premium quality cut flower strain. Earlier flowering and produces larger heads than ordinary strains. *Ball Orig. Seed.*

Tr. pkt., 65c; ¼ oz., \$2.00; 1 oz., \$6.00; 4 ozs., \$18.00.

- **Long-Stemmed White** (*A Ball Origination*). Large trusses of big florets are borne on exceptionally long stems.

Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00; 4 ozs., \$18.00.

**Giant White, Regular.** European grown seed.

Tr. pkt., 25c; ½ oz., 50c; 1 oz., 90c; 4 ozs., \$3.00; 1 lb., \$10.00.

- **Ruffled White.** Ruffled petals add interest to this excellent cut-flower strain. Tr. pkt., 50c; ½ oz., \$1.40; 1 oz., \$2.50.

**UMBELLATA.** A popular spring greenhouse cut flower. Sow in January; plant out 8-10 in. Is also widely used as a winter outdoor crop in Florida and southern Texas.

Flesh-Pink

White

Rose-Cardinal

Lavender (Lilac)

Formula Mixture

Prices above 5, each: tr. pkt., 30c; 1 oz., 90c; 4 ozs., \$3.00.

#### FAIRY MIXTURE

Extra dwarf (8 in.) growth, producing perfectly mounded plants in white, pink, lavender and crimson.

Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

Perennial Candytuft. See *Iberis*, page 26.

## CANNA

ANNUAL (*C. generalis*)

100 S. 8 weeks 65-75°

**Giant Mixture.** Select your own new varieties from this formula mixture. If sown in January, seedlings will usually bloom the first summer. Soak seed before sowing over good bottom heat.

1 oz. (about 100 seeds), \$1.50; 4 ozs., \$5.00.

## CARNATION

ANNUAL (*Dianthus caryophyllus*)

14,000 S. 2-3 weeks 65-75°

An early sowing planted outdoors will produce a nice crop of summer Carnations for cutting. Some supporting necessary.

- **Giant Malmaison, J. M. Bridgeford.** Of sturdy, upright habit. If well grown, supported and disbudded, flowers comparable to those produced in the greenhouse can be had outside where summers are moderate. A superior mixture. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

**Marguerite Double Mixture.** 15-20 in. Ours is a reselected strain of this very free flowering summer Carnation. An old favorite. Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

**VIENNA MIXTURE (NEW).** A choice dwarf mixture. Early blooming and very free flowering.

Tr. pkt. (1/16 oz.), 85c; ¼ oz., \$2.50; 1 oz., \$7.50.

**CHABAUD'S GIANT IMPROVED STRAIN.** The preferred strain for outdoor bedding use.

- **Cardinal-Red** (Sparkler)

**Flesh-Pink** (Reine Rose)

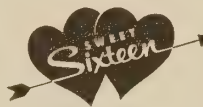
**Deep Rose** (Rose Queen)

- **White** (Jeanne Dionis)

**Deep Salmon** (Aurora)

**Yellow** (Marie Chabaud)

Prices above 6, each: tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.



#### FORMULA MIXTURE

This fine formula mixture includes all Carnation colors. The preferred strain for bedding. See this in color on page 14.

Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

**ENFANT DE NICE.** Upright habit, with long, strong stalks bearing flowers 2½ to 3 inches in diameter. Ideal for bedding plant trade.

**Red Salmon White Yellow Formula Mixture**

Prices above 5, each: tr. pkt. (1/32 oz.), 55c; 1/16 oz., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.

PERENNIAL (*Dianthus caryophyllus*) 14,000 S. 2-3 weeks 65-75°

**GRENADIN** (Hardy Carnation). 20 in. Good for cutting.

**King of the Blacks.** Darkest red.

**Golden Sun**

● **Pink**

● **Red**

**White**

- **Mixture.** A specially blended strain with extra large flowers.

Prices above 6, each: tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.50.

**Castor Bean.** See *Ricinus*, page 48.





**CINERARIA, FESTIVAL**  
(See page 16)



**LOBELIA, CRYSTAL PALACE**  
(See page 27)



**KALANCHOE, TOM THUMB**  
(See page 26)



**CARNATION, CHABAUD'S MIXTURE**  
(See page 13)



**PLATYCODON**  
(See page 31)

← **CAMPANULA**  
(See page 13)

**CALCEOLARIA—BALL MULTIFLORA NANA MIXTURE**  
(See page 12)





# Celosia

## ANNUAL

(*C. argentea cristata*) 28,000 S. 1-2 weeks 65-75°

One of the finest, most uniform and colorful items for annual plant sales. Celosias will come into bloom prematurely with small heads if growth is checked. Therefore, for spring plant sales do not sow earlier than 6 weeks before planting-out time, and grow warm—at least 60° nights.

**CRISTATA.** The popular Cockscomb type. The taller varieties provide good cut flowers in either the fresh or dried state, while the dwarf kinds make nice borders or pot plants in summer. Closer spacing decreases size of heads, making them more suitable for cutting.

**Empress (Dwarf).** 12 in. Large crimson combs with deep reddish leaves.

Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.40.

**Gilbert's Gold Dust.** Yellow, turning a deep gold.

**Gilbert's Rose Beauty.** Ruffled, ball-shaped heads.

**Gilbert's Maple Gold.** Light to dark pink, tipped with gold.

Prices above 3, each: *Originator's tr. pkt.* (300 seeds), 75c; 5 pkts., \$3.35.

**Gladiator.** 8 in. Golden yellow combs on dwarf plants with light green leaves. Improved strain. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

## ● KARDINAL

8 in. A fine uniform strain of red combs with green leaves. Immense blooms on extremely dwarf plants make Kardinal quite striking. Useful for pots, bedding, borders and combinations. Tr. pkt., 50c; ⅛ oz., \$1.40; ¼ oz., \$2.50; 1 oz., \$7.50.

● **Red and Gold.** 2 ft. Large combs gaily marked wine-red and yellow-gold with bright green leaves.

Tr. pkt., 50c; ⅛ oz., \$1.50; ½ oz., \$5.00.

**Royal Velvet.** 30 in. Crimson combs borne well above foliage.

Tr. pkt., 40c; ¼ oz., \$1.20; 1 oz., \$3.60.

## ● TOREADOR

ALL-AMERICA SELECTION Large combs up to 12 inches across of lustrous, bright red are carried on plants 18-20 inches high. Stems are very stiff and sturdy with luxurious, bright green foliage. See below. *Ball Orig. Seed.* Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

● **Dwarf Mixture.** 8 in. A choice mixture of all colors in this class with both light and dark foliage. A new, improved strain.

Tr. pkt., 50c; ⅛ oz., \$1.40; ¼ oz., \$2.50; 1 oz., \$7.50.

**Tall Mixture.** 3½ ft. Mixture of all colors in the tall class.

Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.40.



## CELOSIA, FOREST FIRE AND GOLDEN FEATHER

**PLUMOSA.** Plumed or feathery type, producing spire-like branches, mostly from base of plant. The dwarf varieties are widely used for bedding and as spring and summer pot plants, while the taller strains make useful cut flowers in late summer.

## ● FOREST FIRE

2½ ft. Brilliant plumes of fiery orange-scarlet contrast strikingly with the bronzy red foliage. Visitors at our trial grounds are impressed with its showiness and uniform habit. An improved strain. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

**Golden Fleece.** 4 ft. Large, dense golden yellow plumes on vigorous plants. Makes a good cut flower.

Tr. pkt., 40c; ¼ oz., \$1.20; 1 oz., \$3.60.

**Scarlet Plume.** 4 ft. Bright crimson-scarlet. Very colorful for fall borders and cutting. Tr. pkt., 40c; ¼ oz., \$1.20; 1 oz., \$3.60.

**Spicata.** 5 ft. Long, slender, silvery rose spikes for fresh cut flowers, or for drying. Tr. pkt., 40c; ¼ oz., \$1.20; 1 oz., \$3.60.

● **Thompsoni Magnifica.** 2½ ft. Contains strikingly brilliant reds and yellows with some copper and gold shades. This makes an excellent cut flower. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

## DWARF FEATHER VARIETIES

These "feather" varieties are really outstanding as a bedding subject where a rather dwarf, strong color accent is wanted. Also used for combinations and pots. Our trials of Fiery Feather and Golden Feather draw much favorable comment each year.

● **Fiery Feather.** 12 in. Very attractive pyramid formation with fiery red spires.

● **Golden Feather.** 12 in. Same as above but golden yellow.

● **Feather Mixture.** A formula mixture of the above two varieties: 2/3 Fiery Feather, 1/3 Golden Feather.

Prices above 3, each: tr. pkt., 30c; ⅛ oz., 70c; ¼ oz., \$1.30; 1 oz., \$4.25.



This arrangement of All-America Winner, Celosia Toreador, and Bells of Ireland, reminds us of the value of annuals for cut flower designs—table arrangements, centerpieces, etc. Many of your customers use annuals largely for this purpose.

See page 10 for Bells of Ireland.



## CENTAUREA

**ANNUAL** (*C. species*) 7000 S. 2-4 weeks 65-75°  
CYANUS (Bachelor Button or Cornflower). Attractive and useful for spring greenhouse cutting from December or January sowing, and widely flowered outdoors in summer. All of the following are the finest reselected florist strains.

### ● BLUE BOY

The bright blue of this popular Cornflower has been prized by gardeners for years. Be sure to grow plenty for your bedding plant customers.  
Tr. pkt., 20c; 1 oz., 65c; 4 ozs., \$2.20; 1 lb., \$6.50.

- **Pinkie** (Rosie). Rose-pink.  
**Red Boy**. Deep carmine-rose.
  - **Snowman**. Fine clear white.  
**Formula Mixture**.
- Prices above 4, each: 1/4 oz., 20c; 1 oz., 65c; 4 ozs., \$2.20; 1 lb., \$6.50.

### DWARF CENTAUREAS

Dwarf and bushy. Ideal for borders and general bedding. Height 10-12 in. Also make a satisfactory pot plant.

- **Jubilee Gem**. Bright cornflower-blue.  
Tr. pkt., 35c; 1/4 oz., 60c; 1 oz., \$1.80.

**IMPERIALIS** (Sweet Sultan). 30 in. Very showy thistle-like flowers; larger than the Cyanus type.

**Suaevolens** (Yellow Sweet Sultan). 20 in. Bright yellow. Forces well indoors. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.40.

**DUSTY MILLERS**. The silvery white-leaved kinds for border work. Cineraria Maritima Diamond also belongs in this group.

**Candidissima**. 6 in. The slow growing kind that must be started early. Tr. pkt., 60c; 1/4 oz., \$1.25; 1 oz., \$3.75.

**Gymnocarpa**. 2 ft. Strong growing, fern-leaved. Tr. pkt., 35c; 1/4 oz., 60c; 1 oz., \$1.80.

- PERENNIAL** (*C. montana*) 1600 S. 3-4 weeks 65-75°  
**Montana**. 2 ft. Large cornflower-blue flowers.  
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

## CERASTIUM

- PERENNIAL** (*C. tomentosum*) 42,000 S. 2-4 weeks 65-75°  
**Tomentosum**. 10 to 12 in. An excellent spreading garden perennial with silvery foliage and small white flowers.  
Tr. pkt., 30c; 1/4 oz., 60c; 1 oz., \$1.80.

## CHEIRANTHUS (Siberian Wallflower)

- PERENNIAL** (*C. cheiri*) 19,000 S. 2-3 weeks 65-75°  
Does best in cool climates.

- **Golden Bedder**. 18 in. Large, deep golden yellow.  
Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.20.
- Orange Queen**. 18 in. Free flowering brilliant orange.  
Tr. pkt., 25c; 1 oz., 50c; 4 ozs., \$1.50.

**Annual Wallflower**. See page 59.

## CHERRY, CHRISTMAS

**ANNUAL** (*Solanum pseudo-capsicum*) 12,000 S. 3-4 weeks 65-75°  
Sow in February, summer plants outdoors; lift and pot in September for Christmas pot plants. Or to save labor carry in pots in frames during summer.

- **Ball Christmas Cherry** (Hlavacek's Masterpiece). A uniform, bushy strain. Large, round, red fruit is very freely produced. *Ball Orig. Seed*.  
Tr. pkt., 50c; 1/4 oz., \$1.25; 1 oz., \$3.75.
- Patterson Christmas Cherry**. More dwarf and compact than Ball Christmas Cherry. Well suited for smaller sized pots.  
Tr. pkt., 75c; 1/4 oz., \$1.50; 1 oz., \$4.75.

See also Pepper, Christmas, page 31, and Love Apple, page 27.

## CHRYSANTHEMUM

**ANNUAL** (*C. species*) 9000 S. 2-5 weeks 65-75°  
A nice spring greenhouse "catch crop" for cutting. Also quite showy for bedding.

- **Rainbow Mixture** (Carinatum). 2 ft. A brilliant mixture of annual Chrysanthemums including many entirely new shades and color combinations. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.25.

- PERENNIAL** (*C. species*) 70,000 S. 2-4 weeks 65-75°  
**Glory Mixture**. 1 1/2 to 2 ft. Our finest mixture of hardy Chrysanthemums with an exceedingly wide range of brilliant colors. Contains Korean and Arcticum Hybrids, Azaleamums, Indicum, and Morifoliums. Tr. pkt., \$1.00; 1/8 oz., \$2.50; 1/4 oz., \$4.50.

**Korean Mixture**. 1 1/2 to 2 ft. Single and semi-double types in a good color range. Some bloom rather late for localities with early frost dates. Tr. pkt., \$1.00; 1/8 oz., \$2.50; 1/4 oz., \$4.50.

- **Mikado**. A hand-pollinated mixture of greenhouse, cut flower varieties in a wide color range. Large Mums, Pompons, Anemones, and Spider types are included in this novel assortment. Seed sown in March will produce flowers the following fall and early winter. Specimens may be propagated by cuttings. Tr. pkt. (250 seeds), \$2.50.

## CINERARIA

**ANNUAL** (*Senecio cruentus*) 150,000 S. 2-3 weeks 65-75°  
Cinerarias will make nice 3-inch plants in May for combination work, or budget sales, if sown Dec.-Jan. and kept growing right along. Sow from June on for 5- and 6-in. pots for Christmas and later.

- **Cremer's Prize Strain** (Our own reselected stock). Extra large heads of medium small flowers in widely varied color assortment; about half light-eyed. Small foliage. Tr. pkt., \$1.75; 1/64 oz., \$2.50; 1/32 oz., \$4.50; 1/16 oz., \$8.25.
- **Dwarf Erfurt Mixture**. Dense heads of medium sized flowers in a fine color balance, including copper, salmon, and maroon in addition to the usual Cineraria colors. Habit is compact and very uniform. Tr. pkt., \$1.50; 1/64 oz., \$2.50.

**Dwarf Giant Exhibition Mixture**. Extra large flowers on medium dwarf plants. For exhibition work. Tr. pkt., \$1.50; 1/64 oz., \$2.75.

- **FESTIVAL** (See this in color on page 14)  
This is our own **small-leaved strain** requiring a minimum of bench space. Plants are bushy and compact with even heads of medium sized, mostly white-eyed flowers in a brilliant color range. We're sure this strain is unexcelled. *Ball Orig. Seed*. 1/2 tr. pkt., \$1.75; tr. pkt., \$3.00; 1/64 oz., \$4.50; 1/32 oz., \$7.50; 1/16 oz., \$13.00.

**Grandiflora Dwarf Mixture**. 112,000 S. Large flowers in rich colors with contrasting large white eyes. Dwarf growth. Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

**H. & S. Super Giants Superb Mixture**. Similar to dwarf Giant Exhibition Mixture. A fine strain in a complete color range. *Originator's seed*. Tr. pkt., \$1.50; 1/64 oz., \$2.50; 1/32 oz., \$4.50; 1/16 oz., \$8.50.

- **Multiflora Nana, Gold Center**. 200,000 S. Attractive, medium small, solid colored flowers with yellow anthers. Good shipper. Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00.
- **No. 1 Mixture**. Consists of Cremer's Prize Strain and Siter's Rainbow Strain in equal proportions. Tr. pkt., \$1.50; 1/64 oz., \$2.50; 1/32 oz., \$4.75.
- **No. 2 Mixture**. Contains 1/2 Cremer's Prize Strain and 1/4 each Siter's Rainbow Strain and Multiflora Nana, Gold Center Strain. Tr. pkt., \$1.50; 1/64 oz., \$2.50; 1/32 oz., \$4.75.

- **Siter's Rainbow Strain**. 112,000 S. Immense heads of medium large, mostly white-eyed flowers. Tr. pkt., \$2.00; 1/64 oz., \$2.75; 1/32 oz., \$5.00; 1/16 oz., \$9.00.

**Stellata Mixture** (Star type). Small, free flowering strain. 24 to 30 in. tall. Tr. pkt., \$1.00; 1/32 oz., \$2.50.

**"Vivid" Formula Mixture**. A complete mixture of solid colors (without "eyes"). Dwarf with well rounded heads and fairly small leaves. Blooms about a month later than other strains. Tr. pkt. (1000 seeds), \$1.75; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

Also available in the following separate colors at the same price:  
**White, Bright Red, Brick-Red** (Matador), **Light Blue, Mid-Blue, Pink Shades** and **Salmon**.

**DUSTY MILLER**. 85,000 S.

- **Maritima Diamond**. 10 in. An improved strain of our finest Dusty Miller. Compact, even growth and very white foliage. Tr. pkt., 20c; 1/4 oz., 50c; 1 oz., \$1.50.

**CLARKIA, CLEOME and COBAEA ON PAGE 18.**



# COLEUS

## BALL RAINBOW

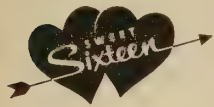
Originator's Seed

ANNUAL (*C. blumei*)

100,000 S. 2-3 weeks 70-80°

Nearly twenty years of carefully controlled breeding work has gone into the development of Ball Rainbow Coleus, starting with the original selection made by Geo. J. Ball. Today this strain is used throughout the country by thousands of growers who have come to depend upon it for combination use and bedding plant sales. Many, in fact, use Ball Rainbow Coleus exclusively, in place of cutting propagated varieties. All of this seed is produced in our West Chicago greenhouses under our careful supervision.

Coleus should have full sun in winter, light shade in spring greenhouse. As a house plant it requires full sun. In the garden it does well in complete or partial shade. Good 3-in. pots come in 3 months or less from seed at 65°, bedding Coleus in "paks" take about two months.



### ● BALL RAINBOW MIXTURE

We have trialed all important commercial Coleus strains—none match this strain for its high percentage of bright warm Coleus colors which even excel the brilliance and luster of many of the best known cutting propagated varieties. Rich reds, yellows, coppers, pinks, all abound in infinite varieties of tones and shades. Ideal for combination, shade planting, and wherever Coleus are useful. This seed is greenhouse-grown at West Chicago. *Ball Orig. Seed.*

½ tr. pkt., \$1.00; tr. pkt., \$1.75; ¼ oz., \$2.75; ½ oz., \$5.25; ¼ oz., \$9.50.

- **Candidum.** Pictured below. A striking combination of brilliant green and soft ivory. Wonderfully showy for use in plant combinations, blending well with all other colors. 90% true to type. *Ball Orig. Seed.*
- **Golden Rainbow.** A rich, golden chartreuse flecked with pale green. Makes a wonderful contrast with red leaved varieties. 90% true to type. *Ball Orig. Seed.*
- **Pastel Rainbow.** Soft shades of light salmon-pink and pale green provide a wealth of spring-like freshness in this pleasing variety. 90% true to type. *Ball Orig. Seed.*
- **Pink Rainbow.** Pictured below. Medium sized leaves of rich coral-pink blending to salmon with small green border. Unusually attractive and 90% true to type. *Ball Orig. Seed.*
- **Red Rainbow.** Pictured below. A bright combination of deep mahogany-red and brilliant carmine-rose edged green. Bushy plants with medium sized leaves. 90% true to type. *Ball Orig. Seed.*
- **Scarlet Rainbow.** Pictured above. Brilliant scarlet-red with narrow green edge. The most colorful of all when plants are the size for combination use. Darkens somewhat as plants grow larger and older. 90% true to type. *Ball Orig. Seed.*
- **Velvet Rainbow.** Pictured above. Visitors at our greenhouses have frequently remarked about the wonderful brilliance of this blood-red variety with darker velvety overtones. 90% true to type. *Ball Orig. Seed.*

**Ball Rainbow FORMULA Mixture (NEW).** At the request of many of our customers, we offer this mixture, blended by formula from the above 7 separate color varieties only. Contains none of the brownish shades present in most mixtures.

Prices above 8, each: ½ tr. pkt., \$1.50; tr. pkt., \$2.50; ¼ oz., \$3.30; ½ oz., \$6.00; ¼ oz., \$11.00.

**COLLECTION:** Tr. pkt. each of Pastel Rainbow, Velvet Rainbow, Scarlet Rainbow, Red Rainbow, Pink Rainbow, Golden Rainbow, and Candidum. 7 tr. pkts. for \$15.75.



3-inch Coleus plants ready for combination use or bedding sales. Top to bottom: Golden Rainbow, Velvet Rainbow, Candidum, Scarlet Rainbow, and another lot of Candidum.

### IMPORTANT!



Seed of all Ball greenhouse-grown Coleus varieties, including our Rainbow Mixture, is produced at West Chicago each year from carefully controlled parent lines. It is important that genuine **Ball originator's Seed** be used if top quality is wanted. Other strains are, of necessity, 2 generations removed from the original breeding stock, and often give unsatisfactory results.

### Other Varieties

**Ball Copper Giant.** Large leaves of copper-rose. 75% true to type. *Ball Orig. Seed.* Tr. pkt., \$1.25; ½ oz., \$2.50.

● **Giant Exhibition Mixture.** An extra large-leaved strain with exceptional brilliance of coloring. Tr. pkt., \$1.25; ½ oz., \$2.50; ¼ oz., \$4.75.

**Standard Mixture.** This is a field-grown mixture. European grown reproduction of our Ball Rainbow Strain. Tr. pkt., 75c; ½ oz., \$1.80; ¼ oz., \$3.25.

PINK RAINBOW



CANDIDUM



RED RAINBOW





## CLARKIA

**ANNUAL** (*C. elegans*) 90,000 S. 1-2 weeks 65-75°  
Popular double type for spring cut flower use. Sow in January and grow in flats, disbudding to 2 or 3 spikes for long-stemmed flowers. Don't feed and keep fairly dry after plants are about a foot high to prevent over-soft, lanky growth.

**Salmon Queen**

**Mixture**

Prices above 2, each: tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

## CLEOME (Spider Plant)

**ANNUAL** (*C. spinosa*) 12,500 S. 1-2 weeks 65-75°  
Good bedding plant for backgrounds. Starts slowly but grows fast in garden.

**Golden Sparkler** (*C. lutea*). 5500 S. 3 ft. Bright golden orange. An unusual Cleome color. Germinate cool or sow directly outside. Tr. pkt., 45c; ¼ oz., \$1.25; 1 oz., \$3.75.

**Helen Campbell**. 4 ft. A sport of Pink Queen, with large heads of glistening pure white flowers. Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$2.70.

### ● PINK QUEEN

The newly opened flowers of the large (6 to 7 in.) heads are a luminous rosy pink, later changing to pure white for a pleasing bicolor effect. Makes a gorgeous hedge-like row about 4 ft. tall and 3 to 4 ft. across. Tr. pkt., 35c; ¼ oz., 55c; 1 oz., \$1.90.

**Purple Queen**. 5 ft. Similar to Pink Queen, but with large heads of lilac-purple flowers. Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$2.70.

## COBAEA (Cup-and-Saucer Vine)

**ANNUAL** (*C. scandens*) 375 S. 2-3 weeks 65-75°  
A popular, strong growing annual climber with 2-in. bell-shaped flowers. Reaches 20 ft. Purple. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

## COLEUS

See page 17.

## CONVOLVULUS

**ANNUAL** (*C. tricolor*) 1400 S. 10 days 65°  
**Royal Marine**. This dwarf Morning Glory is almost carpet-like in growth with a profusion of rich, royal blue flowers. Fine for rock gardens or borders. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

## COREOPSIS

**PERENNIAL** (*C. grandiflora*) 11,000 S. 2-3 weeks 65-75°  
The long, graceful stems and rich, golden yellow color give this plant real value for cutting. We find it best treated as a biennial.

● **Sunburst**. 2 ft. A fine semi-double strain with 2-inch, golden yellow flowers. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.10.

## CORN, ORNAMENTAL

**ANNUAL** (*Zea Mays*) 90 S. 1 week 65-75°  
**Rainbow** (Calico or Indian Squaw). Kernels of various colors make attractive ears for fall decoration. 1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.50.

**Strawberry**. 590 S. Tiny 2-in. ears of rich, shiny mahogany contrast with the straw-colored husks when folded back. 1 oz., 40c; 4 ozs., \$1.40; 1 lb., \$4.00.

**Striped**. 6-8 ft. Here is an ornamental-leaved Corn, the foliage of which is quite attractive with its contrasting clear yellow stripes on dark green. Try the leaves in floral arrangements. 1 oz., 40c; 4 ozs., \$1.40; 1 lb., \$4.00.

## COSMOS

**ANNUAL** (*C. bipinnatus*) 5000 S. 2-4 weeks 65-75°  
**SENSATION**. 3 ft. The most satisfactory class of Cosmos to grow for cut flower purposes. Extra large flowers and extreme earliness make them suitable for growing outdoors even in northern climates.

● **Pinkie**. Clear orchid-pink.

● **Purity**. Extra large flowered pure white.

● **Mixture** of above and other shades.

**Radiance**. Deep rose petals with large, rich crimson eye. A striking color combination.

**Dazzler**. Bright crimson-red.

Prices above 5, each: tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50.

### EARLY SINGLE MAMMOTH FLOWERED

**Queen Mixture**. All colors in this large flowered class. Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50.

### EXTRA EARLY DOUBLE CRESTED

Produces around 60% large crested flowers.

**Mixture**. Tr. pkt., 55c; ¼ oz., \$1.60; 1 oz., \$4.80.

### HYBRIDA KLONDYKE. 2800 S.

● **Fiesta**. Yellow, striped orange. Sturdy plants, good for bedding. Tr. pkt., 40c; ¼ oz., 70c; 1 oz., \$2.10.

## COTTON

**ANNUAL** (*Gossypium hirsutum*) 270 S. 12 days 70°  
A dwarf strain with bright pink buds and creamy blossoms. Sow indoors and plant out after frost. Seed cannot be shipped into California. Tr. pkt., 35c; 1 oz., \$1.50.

### ● CROSSANDRA

For Potted Plants

**ANNUAL** (*C. infundibuliformis*) 4000 S. 7-12 weeks 75-80°



Attractive and valuable pot plant with glossy, Gardenia-like foliage, and flower spikes of overlapping clear salmon florets. Can be sown at any time but most easily started in early spring, and flowers 7 to 8 months in a warm house and in rich, well drained soil. Minimum of 65° for best growth.

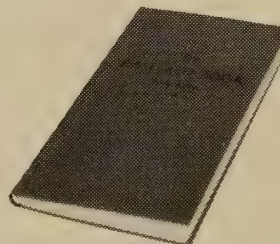
50 seeds, \$2.00; 200 seeds, \$6.00.

## CUPHEA

**ANNUAL** (*C. Llavea miniata*) 7000 S. 2-3 weeks 65-75°  
Very attractive and easily grown bedding plants.

● **Firefly**. 12 in. Dense, compact plants with freely produced, small, bright scarlet flowers. Also makes an attractive spring pot plant. Tr. pkt., 40c; ½ oz., 75c; ¼ oz., \$1.35; 1 oz., \$4.00.

### BALL RED BOOK



Cultural information on over 130 greenhouse crops, together with articles on greenhouse management and merchandising.

**BALL RED BOOK**, Ninth Edition.

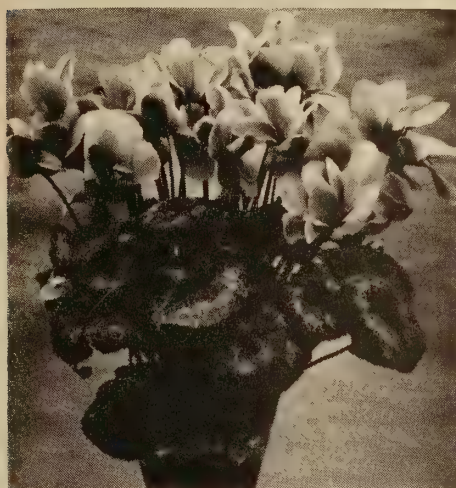
Price, \$2.00



## CYCLAMEN

ANNUAL (*C. indicum giganteum*)

2500 S. 3-4 weeks 65-75°



We conduct regular and extensive flowering trials of Cyclamen strains from the world's leading seed producers, in addition to examining these strains as they are grown in Europe and America. Our conclusion is that no one Cyclamen seed specialist excels in all varieties. As a result, the Ball strains include only those in which each grower (according to our observation—not the grower's claim) excels.

- No. 1 Dark Blood-Red.
  - No. 2 Bright Red.
  - No. 3 Pure Rose (Rose of Aalsmeer). Medium salmon-pink.
  - No. 4 Soft Rose with Carmine Eye. Lavender-rose; wine-red eye.
  - No. 5 White with Carmine Eye.
  - No. 6 Pure White. Large flowers.
  - No. 7 Bonfire. Brilliant scarlet-salmon.
  - No. 8 Salmon-Scarlet (America-Imp.).
  - No. 10 Glory of Wandsbek (Perle of Zehlendorf). Bright deep salmon.
  - No. 11 Rose of Zehlendorf. Light salmon.
  - No. 12 Orange Beauty. Orange-vermilion.
  - No. 13 Rococo Mixture. Fringed flowers; unusual shapes and markings.
  - No. 16 Saffron-Red, Silver Edged.
  - No. 17 Striped Mixture. Unusually showy and attractive.
  - No. 18 Mozart. Deep pink.
  - No. 19 Lavender. Bright fuchsia-orchid.
  - No. 21 Pink Pearl. Salmon-pink.
  - No. 22 Baardse Wonder. Salmon with white border.
  - No. 26 Victoria. Fringed white, tipped red.
  - No. 51 Ruffled Salmon.
  - No. 52 Ruffled White.
  - No. 60 Ruffled Mixture.
- Prices above 22, each: 100 seeds, \$2.50; 1000 seeds, \$20.00.
- No. 30 Mixture of above colors:  
100 seeds, \$2.00; 1000 seeds, \$15.00. Please order in units of 100, 250, 500, or 1000.

**DISCOUNTS**—In addition to our regular cash discounts, the following special discounts are allowed on the above Cyclamen seed: 250 of a variety at 1000 rate; 10,000 to 25,000 seeds, any assortment, 5%; over 25,000 seeds, 10%.

### VOGT'S DOUBLE-FLOWERED STRAIN

Mixture. 100 seeds, \$3.75; 250 seeds, \$7.75; 500 seeds, \$14.50.

**PERENNIAL** (*C. neapolitanum*) 2500 S. 3-4 weeks 65-75°

### NEAPOLITANUM MIXTURE

Shades of rose and white flowers about 1/3 the size of annual Cyclamen. Free flowering on 8- to 10-inch stems, in August and September. For best results sow early in fall and carry seedlings through the first winter under glass, transplanting out to partially shaded area in spring. 100 seeds, \$1.00; 500 seeds, \$3.00.

## CYNOGLOSSUM

ANNUAL (*C. amabile*)

5000 S. 2-3 weeks 65-75°

AMABILE. Chinese Forget-Me-Not.

- **Firmament.** 18 in. Fine bushy, compact plants with freely produced small flowers of the most intense clear blue. An excellent bedding plant that stands hot, dry weather well.  
Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.35.
- Blue Bird.** 2 ft. An improved, upright-growing type; rich bright blue.  
Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.15.

## DAHLIA

*G. J. Ball*  
INC.

ANNUAL (*D. pinnata*)

2800 S. 2-3 weeks 65-75°

Because of the wide variation in colors and types, seedling Dahlias are interesting to grow and tubers may be saved from the choicest specimens. The dwarf types are especially nice for outdoor bedding while the Unwin strain also makes a fine pot plant. All flower the first season from an early sowing. **Should be sown several weeks ahead of other annuals for maximum bloom the first year.**

**Cactus Mixture.** 3 to 4 ft. Large, double and semi-double Cactus type flowers in many colors. Tr. pkt., \$1.00; 1/4 oz., \$2.50; 1 oz., \$7.50.

**Coltness Mixture.** Dwarf and free flowering single mixture.  
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

**Extra Dwarf Double.** 20 in. Double and semi-double flowers in all colors on bushy plants. Early blooming.  
Tr. pkt., 45c; 1/4 oz., \$1.35; 1 oz., \$4.00; 4 ozs., \$12.00.

**Fall Festival (Zulu).** 2 1/2 ft. single and double flowers in shades of red with some apricot-yellow and purple. Foliage is an unusually attractive bronzy red. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.50.

**Giant-Flowered Mixture.** A tall-growing mixture producing 50% giant double flowers of the very best types and colorings. Must be sown early to insure blooms before frost.  
Tr. pkt., 60c; 1/8 oz., \$1.85; 1/4 oz., \$3.50; 1 oz., \$10.00.

**Pompon Mixture.** 3 ft. Medium to small double and semi-double flowers in a wide color range. Tr. pkt., \$1.00; 1/4 oz., \$2.50; 1 oz., \$7.50.



### ● UNWIN'S DWARF MIXTURE

The compact, dwarf plants of our special strain (pictured on page 20) produce a profusion of 2 1/2- to 3-inch double and semi-double blooms in a lavish assortment of exquisite colors. Seed sown during January will produce salable 3- to 4-inch flowering pot plants in May.  
Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.50; 4 ozs., \$7.50.

## DAISY

ANNUAL

S. See below 14 days 60°

**Dahlborg Daisy** (*Thymophylla tenuiloba*). 150,000 S. 6 in. An unusually attractive, compact edging plant with airy, lace-like leaves and a profusion of small yellow flowers. Tr. pkt., 60c; 1/8 oz., \$1.40.

**Tahoka Daisy** (*Machaeranthera tanacetifolia*). 29,500 S. 2 ft. Single, Daisy-like flowers of lavender-blue with deep yellow centers.  
Tr. pkt., 30c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$3.75.

**PERENNIAL** (*Chrysanthemum maximum*). 21,000 S. 12 days 65°  
**SHASTA DAISY.** For best results, sow in February for cut flowers the second summer. Succession crops should be sown each year. Specimen plants may be propagated by divisions.

### ● G. MARCONI

18,000 S. The largest flowered and finest double Shasta Daisy strain from seed. Long-stemmed.  
Tr. pkt., 55c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$9.00.

- **Alaska.** The standard Shasta Daisy. July.  
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

**Blue Daisy.** See *Aganthea*, page 4.

**English Daisy.** See *Bellis*, page 10.

**Gloriosa Daisy.** See *Rudbeckia*, page 48.

**Painted Daisy.** See *Pyrethrum*, page 48.

## DATURA

ANNUAL (*D. species*)

2-3 weeks 65-75°

**White Tower** (*D. suaveolens*). 870 S. 5 ft. Huge, fragrant, snowy, trumpet-like flowers up to a foot in length. Very spectacular when well grown. Germinates slowly and needs heat.  
Tr. pkt., 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.

**Wrighti** (*Angel's Trumpet*). 2500 S. 3 ft. Large, white, tinted orchid flowers. Tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00.

Dahlia, Unwin's Dwarf Mixture is "Sweet Sixteen" for '60. Add it to your list.





# Delphinium

**PERENNIAL** (*D. elatum*)

10,000 S. 3-4 weeks 55-65°

If Delphinium seed is sown in January or early February, transplanted in the greenhouse and planted out in early spring, a good cut can be had the same summer with excellent production the following season.

## GIANT PACIFIC STRAINS Court Series

- **Black Knight.** Deep velvety blue. The darkest of all.
- **Blue Bird.** The clearest of medium blues; white bees.
- **Blue Jay.** A brilliant true medium blue with dark bee.
- **Cameliard.** Lavender and rose with white bee.
- **Galahad.** The finest clear white Delphinium.
- **Guinevere.** Excellent, light pinkish lavender; white bee.
- **King Arthur.** Royal violet with white bee. Exceptional size.
- **Summer Skies.** Light blue with contrasting white bee.
- **6 Best Mixture.** Formula mixture of the "6 Best" varieties.
- **Round Table.** Contains all above plus many new colors.

Prices of above:

**Originator's Seed** (Vetterle and Reinelt). An excellent strain of the Giant Pacifics kept uniform and vigorous by the originator.

½ tr. pkt., \$1.25; tr. pkt., \$2.00; ⅛ oz., \$3.00; ¼ oz., \$5.50; 1 oz., \$20.00.

**Regular Seed.** A satisfactory strain one generation removed from originator's seed. Grown by a reliable seed producer.

Tr. pkt., \$1.50; ⅛ oz., \$2.50; ¼ oz., \$4.50; 1 oz., \$15.50.

### ASTOLAT

Pale blush-pink shades with several darker tones including a few raspberry-rose. Dark bees. ½ tr. pkt., \$1.25; tr. pkt., \$2.00; ⅛ oz., \$3.00; ¼ oz., \$5.50; 1 oz., \$20.00.

### GIANT PACIFIC DELPHINIUM

Cameliard, Summer Skies, Black Knight, and Guinevere

## OTHER VARIETIES

(All California-grown seed)

- **Belladonna Imp.** (Cliveden Beauty). Popular light blue.  
Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Bellamosum Improved.** Standard deep blue.  
Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Lamartine.** Deep, bright marine-blue with white eye.  
Tr. pkt., 55c; ¼ oz., \$1.50; 1 oz., \$5.00.
- **Blackmore and Langdon Strain.** Shades of blue with contrasting bees. A good free-flowering mixture.  
Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Sapphire.** Large flowered bright blue with small golden bee. Petals have a brilliant, glossy sheen. Slightly lighter than Bellamosum.  
Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.
- **Wrexham or Hollyhock Strain.** Extra large, tapering spikes.  
Tr. pkt., 55c; ¼ oz., \$1.75; 1 oz., \$6.00.
- **Gold Medal Mixture.** Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.
- **Cardinale.** 25,000 S. Bright scarlet.  
Tr. pkt., 40c; ¼ oz., \$1.20; 1 oz., \$3.60.

## GIANT PACIFIC REGULAR STRAIN

**Clear White.** A fine clear white, large flowered.

**Blue Shades.** Mixture of light, medium and dark blue.

**Lavender Pastel Shades.** Lavender combinations with dark bees.

**Mixture.** All colors in this fine type.

Prices above 4, each: tr. pkt., \$1.25; ⅛ oz., \$2.25; ¼ oz., \$4.00; 1 oz., \$13.50.

**ANNUAL** (*D. grandiflorum*)

20,000 S. 2-3 weeks 60-70°

**DELPHINIUM CHINENSIS.** Sow several weeks before most bedding plants for good bloom. Often winters over.

- **Blue Mirror.** 2 ft. Bright navy-blue flowers without spurs.  
Tr. pkt., 55c; ¼ oz., \$1.25; 1 oz., \$3.75.
- **Cambridge Blue.** The standard Belladonna blue color.  
Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.
- **Mixture.** Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

## OUR "6 BEST" GIANT PACIFICS

Galahad  
Blue Bird

Summer Skies  
King Arthur

Black Knight  
Guinevere

### COLLECTIONS:

**Originator's Seed.** 1 tr. pkt. each of 6 Best, \$10.80.

**Regular Seed.** 1 tr. pkt. each of 6 Best, \$8.00.



### ● DAHLIA, Unwin's Dwarf Mixture (Right)

The compact, dwarf plants produce a profusion of 2½- to 3-inch double and semi-double blooms in a lavish assortment of exquisite colors.

Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.50; 4 ozs., \$7.50.

OTHER DAHLIAS ON PAGE 19.







**DIANTHUS BARBATUS**  
One of the finest of the perennial Dianthus.

## DIANTHUS

**ANNUAL** (*D. chinensis*) 25,000 S. 2-3 weeks 65-75°

● **Sweet Wivelsfield Single Mixture.** 12 in. Probably the most popular of the annual Dianthus. Free flowering and brilliantly colored. Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.00.

**Sweet Wivelsfield Double Mixture.** Most flowers either semi-double or double. Tr. pkt., 30c; ¼ oz., 70c; 1 oz., \$2.25.

**Westwood Beauty** (*D. Heddensis*). Pleasing 2-inch, single flowers in shades of red on long stems. Somewhat more resistant to heat than ordinary Dianthus. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

**HEDDEWIGI** (Double Pinks). 10 in.

● **Double Gaiety.** Brilliant shades in a full range of colors, including bright salmon and scarlet. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

**Wee Willie.** 3 in. An extra dwarf Dianthus in shades of red. Must be planted close together for good effect. Makes a fine display in flats or for combination use, blooming in 6 to 8 weeks from sowing. Tr. pkt., 60c; ¼ oz., \$1.80; 1 oz., \$5.40.

**PERENNIAL** (*D. species*) 28,000 S. 2-4 weeks 65-75°

Easily grown from seed with flowers from May to July the second season.

**Allwoodi Alpinus Mixture.** 8 to 10 in. 1½-inch single flowers in shades of pink. Early June. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75.

### ● DELTOIDES ERECTA

6 in. May-June flowering. A dwarf rose "Maiden Pink." A fine substitute for creeping Phlox for rock gardens and borders. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75.

**Latifolius Atrococcineus.** 38,000 S. Clusters of bright crimson flowers on individual 12- to 15-inch stems. Fine for cutting May-June. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.25.

**Loveliness.** 15 in. Large, fringed and curled pastel and white flowers. Quite fragrant. *Originator's seed.* Tr. pkt., 80c; ⅛ oz., \$2.50; ¼ oz., \$7.50.

**Winteri.** 16,400 S. Large, single flowers in a mixture of pure colors. Long blooming period. June-July. Tr. pkt., 60c; ⅛ oz., \$1.50; ½ oz., \$5.00.

**PLUMARIUS** (Clove Pink).

**Spring Beauty, Double Mixture** (Scoticus). Various shades of pink, rose and white, some self colors, others with bright crimson zone. 1½-in. flowers on 12- to 15-inch stems. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.25.

**BARBATUS** (Sweet William). 18 in. Early June flowering. Perfectly hardy, flowering second season from seed. All varieties listed are single except where noted.

● **Auricula.** Choice mixture of very large flowers with clearly defined eye.

**Dark Crimson.** A smooth, velvety color.

**Giant White.** Ours is an extra large flowered strain.

● **Holborn Glory.** Striking combination of crimson center with white border. Very uniform.

● **Newport Salmon** (Pink Beauty). A particularly rich pastel salmon-rose shade. Very attractive.

**Purple Beauty.** A rich, deep color. **Scarlet Beauty.** Scarlet-red.

● **Double Mixture.** **Single Mixture.**

Prices above 9, each: tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.60.

## DIANTHUS, Continued

**Double Midget Crimson.** 6 to 8 in. A separate color selected from the popular Double Midget Mixture. True to type.

Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

● **Double Midget Mixture.** 6 to 8 in.

Tr. pkt., 40c; ¼ oz., 90c; 1 oz., \$3.00.

● **Single Midget Mixture.** Very fine, neat alpine and rock plant. 4 to 6 in. with dense heads of single Sweet William flowers.

Tr. pkt., 60c; ¼ oz., \$1.50; 1 oz., \$4.75.

## DICENTRA

**PERENNIAL** (*D. species*) S. See below Frost germinator

**Spectabilis** (Bleeding Heart). 6000 S. 3 ft. Rosy red flowers.

Tr. pkt., \$1.50; ⅛ oz., \$4.50.

**Eximia** (Plumy Bleeding Heart). 16,000 S. Dwarf. 12 in. Rose-pink.

Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

## DICTAMNUS

**PERENNIAL** (*D. fraxinella*) 1700 S. Frost germinator

Must be exposed to freezing temperatures for normal germination.

**Fraxinella** (Gas Plant). 2½ ft. Pink with dark veins.

Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.25.

## DIDISCUS

**ANNUAL** (*Trachymene caerulea*) 10,000 S. 2-3 weeks 65-75°

24 to 30 in. Useful for spring forcing, or outdoors in cool climate.

**Blue Lace** (Caeruleus). Small heads of light lavender flowers in sprays.

**Lace Veil.** A pure white form of the above.

**Pink Lace.** Like the above but pale pink in color if grown in shade.

Prices above 3, each: tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

## DIGITALIS

(Foxglove)

**PERENNIAL**

(*D. purpurea gloxiniaeflora*)

180,000 S. 2-3 weeks 65-75°

4 ft. Biennial. This is an extra large flowered strain.

● **Excelsior.** This unusually fine Foxglove carries its flowers at right angles to the stem rather than drooping downward as other types do. This feature reveals the full effect of the markings inside each flower. All colors are represented in this complete mixture.

Tr. pkt., 45c; ¼ oz., \$1.25; 1 oz., \$3.75.

**Purple** (Dark Red)

**White** **Rose**

**Giant Shirley Mixture**

Prices above 4, each: tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.



**DIGITALIS, GIANT SHIRLEY MIX.**  
Unusually fine Foxglove.

## DIMORPHOTHECA (Cape Marigold)

**ANNUAL** (*D. aurantiaca*) 9500 S. 2-3 weeks 65-75°

6 to 10 in. A very attractive bedding plant.

● **Aurantiaca Mixture.** 2-inch, single, Daisy-like flowers in bright yellow, buff and orange shades. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

**Glistening White.** Large, Daisy-like flowers with black eyes, edged violet. Spreading plants. Tr. pkt., 40c; ¼ oz., \$1.00; 1 oz., \$3.25.

## DORONICUM (Leopards-Bane)

**PERENNIAL** (*D. caucasicum*) 18,000 S. 2-3 weeks 65-75°

**Caucasicum, Magnificent.** 2 ft. Large, yellow, Gerbera-like flowers with long stems. Keep well when cut.

Tr. pkt., \$1.00; ⅛ oz., \$2.25; ½ oz., \$6.75.

## DRACAENA

**ANNUAL** (*D. species*) 1500 S. 5-7 weeks 65-75°

**Indivisa. In the hull.** (*D. lineata*). The narrow-leaved and most popular variety. Tr. pkt., 20c; 1 oz., 55c; 4 ozs., \$1.65.

**Indivisa. Cleaned.** (*D. lineata*). 10,000 S. Hulled seed.

Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

**Dusty Miller.** See Cineraria, page 16, and Centaurea, page 16.



## ECHINOPS (Globe Thistle)

**PERENNIAL** 650 Seed Heads Per Oz. 65-75°

**Ritro.** Metallic blue flower heads 1½ to 2 in. across are borne on 2- to 3-ft. plants. Can be dried for winter bouquets.  
Tr. pkt., 40c; ¼ oz., \$1.10; 1 oz., \$3.25.

## EREMURUS (Desert Candle)

**PERENNIAL** (*E. robustus*) 1400 S. Frost germinator

**Robustus** (Foxtail Lily). 8 ft. Huge, 3-ft. spikes of bright rose-pink. Blooms in 3 years from seed. Tr. pkt., \$1.00; ¼ oz., \$3.50.

## EUPHORBIA

**ANNUAL** (*E. species*) S. See below 1-2 weeks 65-75°

**Variegata** (Snow-on-the-Mountain). 2500 S. 2 ft. Green leaves with white edges. Tr. pkt., 30c; 1 oz., 90c; 4 ozs., \$3.00.

**Heterophylla** (Annual Poinsettia or Mexican Fire Plant). 5000 S. 3 ft. Upper leaves blotched with red.  
Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

**PERENNIAL** (*E. species*) S. See below 4-5 weeks 65-75°

**Myrsinites.** 2500 S. 6 to 8 in. Attractive succulent-like silvery green foliage. Each branch produces a brilliant yellow bract of leaves in May. Tr. pkt., 35c; ⅛ oz., \$1.00; ½ oz., \$3.00.

**Polychroma.** 7000 S. 15 to 18 in. Bushy plants with bracts of bright yellow changing to rosy bronze.  
Tr. pkt., 60c; ⅛ oz., \$1.80; ½ oz., \$5.40.

## EXACUM

**ANNUAL** (*E. affine*) 1,000,000 S. 2-3 weeks 65-75°

● **Affine.** An excellent summer pot plant with richly fragrant violet-blue flowers. A December-January sowing with 3 to 5 seedlings in a 4- or 5-inch pot will make fine plants for summer sales. Shade glass during hot weather. Tr. pkt., \$1.25; ⅓ oz., \$3.00; ¼ oz., \$5.50.

## FEVERFEW

See Matricaria, page 30.

## FUCHSIA

**ANNUAL** (*F. hybrida*) 70,000 S. 4-6 weeks 65-75°

**Special Mixture.** A choice mixture of single and double types saved from one of the finest collections in the country.  
350 seeds, \$3.00; 700 seeds, \$5.50; 1400 seeds, \$10.00.

## GROW FOLIAGE PLANTS FROM BALL SEED

### ADIANTUM (Maidenhair Fern)

**Ocean Spray.** A sturdier growing form of this popular Fern. Fine for pots and combinations or for cutting, and easily grown from seed (spores). Full growing instructions with each order.  
Tr. pkt., \$1.75.

### CASSIA

**ANNUAL** (*C. alata*) 650 S.

**CANDLE TREE (NEW).** A rapid-growing tropical bush with yellow candelabra-like flowers. Reaches a height of 5 to 6 ft. in one season. Recommended for frost-free southern areas only. Seed expected February-March. ¼ oz., \$1.30; 1 oz., \$3.90.

### CLIVIA

**ROBUSTA COMPACTA (NEW).** An attractive plant with wide, Amaryllis-type foliage and long stems with sprays of Lily-like, deep orange flowers. Three years are required to produce large, flowering plants. **Seed shipped March 1.**  
10 seeds, \$2.00; 100 seeds, \$18.00.

### FICUS ELASTICA (Rubber Plant)

**ANNUAL** (*F. elastica*) 14 days 75°

**Ficus Elastica** (New Decora strain with reddish stems and under leaves). Now you can grow this popular "Rubber Plant" from seed, producing salable 4-inch plants in 6 months. Germinates about 40% in 75°. Keep flats exposed to light—do not cover with paper.  
300 seeds, \$4.50.



Mrs. William Risch of Risch Greenhouses, Indianapolis, Ind., with a bench of Super Giant Freesias grown from seed. This fine strain makes it possible to grow good cut flowers from seed.

## FREESIA

**ANNUAL** (*F. hybrida*) 3000 S. 3 weeks 65°

Freesias are enjoying renewed popularity today, due to the fine new seed strains which make it possible to grow good cut flowers from seed. Seed sown in early spring will produce bulbs by September. These will bloom the following winter. Soak seed 24 hours before sowing.

● **SUPER GIANTS.** The most choice strain, imported from a European specialist. Large flowers on long stems.

White Blue and Lilac Shades Red and Pink Shades  
Yellow and Orange Shades Mixture

Prices above 5, each: tr. pkt., \$1.00; ⅛ oz., \$2.25; ½ oz., \$7.50.

**Rainbow Mixture.** Attractive mixture of blues, yellows and reds.  
Tr. pkt., 75c; ⅓ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$8.25.

### JACARANDA

**ANNUAL** 7 days 65°

**Mimosaefolia.** A foliage plant of value for its graceful fern-like leaves—useful in all stages of growth and easy to grow from seed. In conservatories, will develop into trees with beautiful violet flowers, as seen outdoors in southern California.  
100 seeds, 60c; 500 seeds, \$2.50.

### PALM

**ANNUAL** (*Collinea elegans*) 200 S. 3-6 months 65°

**Neantha Bella** (*Chamaedorea elegans*). A miniature Palm from South America. Dwarf and graceful, and grows more rapidly than Kentia after germination. Requires less than 5 months at 70°. Use a friable sandy loam mixed with peat in potting.  
1 oz. (about 200 seeds), \$1.50; 4 ozs. (about 800 seeds), \$5.00.

### SCHEFFLERA

**ANNUAL** (*S. actinophylla*) 65-70°

**ACTINOPHYLLA (NEW).** This popular foliage plant is easy to grow from seed which will germinate in about 2 weeks in a 65-70° temperature. Use a loose, sandy, well drained medium for sowing, covering seeds ⅛ inch deep. Little or no fertilizer is recommended for the first 8 weeks, and water sparingly after plants are about an inch high. 100 seeds, 50c; 1000 seeds, \$4.50.

**ASPARAGUS.** See page 5.

**DRACAENA.** See page 21.



## GAILLARDIA

**ANNUAL** (*G. species*)

14,000 S. 2-3 weeks 65-75°

**PICTA.** Brightly colored, popular plants for beds and borders. The taller varieties make useful summer cut flowers.

### ● SUNSHINE DOUBLE MIXTURE

2 ft. Fully double flowers about 2½ in. across are carried on strong stems 16 to 18 in. long. Attractive shades of wine-red, yellow and bicolor red and yellow. Good for summer cut flowers.  
Tr. pkt., **30c**; ¼ oz., **70c**; 1 oz., **\$2.40**.

**TETRA.**

● **Red Giant.** 2 ft. 2½-inch single flowers of solid, bright coppery red are produced in abundance on vigorous, bushy plants.  
Tr. pkt., **30c**; ¼ oz., **90c**; 1 oz., **\$2.70**.

**PERENNIAL** (*G. grandiflorum*)

9500 S. 2-3 weeks 65-75°

**GRANDIFLORA.** The following strains, except Goblin, are excellent cut flower sorts.

● **Dazzler.** The standard fine cutting strain. Golden yellow with maroon center.

● **Monarch Strain.** A superior mixture of large, full-petaled flowers in various red and yellow combinations.

Prices above 2, each: tr. pkt., **30c**; ¼ oz., **55c**; 1 oz., **\$1.85**.

**Burgundy.** Deep shade of wine-red.

Tr. pkt., **30c**; ¼ oz., **75c**; 1 oz., **\$2.35**.

**Goblin.** Forms very attractive, compact plants with red and yellow bi-colored flowers. Quite free flowering.

Tr. pkt., **25c**; ¼ oz., **75c**; 1 oz., **\$2.35**.

**Gas Plant.** See Dictamnus, page 21.

## GAZANIA

**ANNUAL** (*G. splendens*)

12,000 S. 3 weeks 55°

**Splendens Grandiflora Mixture.** 8 in. Daisy-like flowers, mostly orange, with shades of yellow and white. The vigorous plants are constantly in bloom. Stands hot, dry weather well.

Tr. pkt., **50c**; ¼ oz., **\$1.50**; 1 oz., **\$4.50**.

## GERANIUM

**ANNUAL** (*Pelargonium zonale hyb.*)

6000 S. 4-6 weeks 55-65°

Easily grown from seed, but should be sown early for summer blooms.

**Florist Mixture.** Extra large flowered singles. American-grown.

500 seeds, **\$1.75**; 2000 seeds, **\$5.25**.

**Zonale.** A single mixture of white, pink, salmon and red.

Tr. pkt., **50c**; ¼ oz., **\$2.00**; 1 oz., **\$6.00**.

## GERBERA (Transvaal Daisy)

**ANNUAL** (*G. Jamesoni*)

8000 S. 2-3 weeks 65-75°

**Duplex Mixture.** 2-2½ ft. This splendid strain produces large, 5-inch flowers with twice as many petals as the ordinary single type. All colors except blue, are represented with flowers being carried on long, strong stems. 100 seeds, **65c**; 1000 seeds, **\$5.50**; 5000 seeds, **\$25.00**.

## GESNERIA

**ANNUAL** (*G. macrantha*)

650,000 S. 3 weeks 65-75°

**Macrantha.** The Gloxinia-like leaves of this attractive pot plant are crowned with an upright central stem bearing many slender, tubular, brilliant scarlet flowers. Sow January to March for late fall and Christmas plants. Keep shaded during summer. Tr. pkt., **\$1.25**.

## GEUM

**PERENNIAL** (*G. varieties*)

7000 S. 3-4 weeks 65-75°

The following two provide nice cut-flower material and are perfectly winter hardy with some protection.

**Lady Stratheden.** 2 ft. Double golden yellow.

**Mrs. Bradshaw.** 2 ft. Double glowing red.

Prices above 2, each: tr. pkt., **30c**; ¼ oz., **90c**; 1 oz., **\$2.70**.

## GLADIOLUS

**ANNUAL** (*G. hortulanus*)

5500 S. 2 weeks 65-75°

**Color Cavalcade.** A wonderful assortment of colors from hand pollinated crosses. If seed is sown in fall, bulbets may be harvested in March and replanted in May to be harvested in fall as blooming size bulbs for following spring planting.

250 seeds, **\$1.00**; 1000 seeds, **\$3.00**.

## GLOXINIA

See page 24.

## GOMPHRENA (Globe Amaranth)

*Globe Amaranth*

**ANNUAL** (*G. globosa*)

5500 S. 2-3 weeks 65-75°

**GLOBOSA.** A very showy garden flower, and the taller varieties have value for cutting. Can be dried for winter bouquets. Does exceptionally well in hot, dry locations but is "at home" almost anywhere. Better try some Gomphrena if you've never grown it.

**Rubra.** 18 in. One-inch, ball-shaped flowers of bright reddish purple.

**Orange.** 2 ft.

**Pink.** 2 ft.

**Mixture** of purple, silvery white, pink and orange.

Prices above 4, each: tr. pkt., **30c**; ¼ oz., **50c**; 1 oz., **\$1.50**.

● **Buddy.** 9 in. Fairly dwarf plants with small, bell-shaped flowers of bright reddish purple. This is the true dwarf strain. Fine for bedding, pot plants or combination boxes.

Tr. pkt., **60c**; ¼ oz., **\$1.00**; 1 oz., **\$3.00**.

**Cissy.** 9 in. The same dwarf, compact habit of growth as Buddy, but with silvery white flowers. Tr. pkt., **60c**; ¼ oz., **\$1.00**; 1 oz., **\$3.00**.

● **Dot 'N Dash.** The two dwarf Gomphrenas, Buddy and Cissy, mixed. Plant this for a really striking contrast.

Tr. pkt., **60c**; ¼ oz., **\$1.00**; 1 oz., **\$3.00**.

## GOURDS, ORNAMENTAL

**ANNUAL**

500 S. 2-3 weeks 65-75°

**SMALL VARIETIES.** All are easily grown and, when properly dried and varnished, last indefinitely.

**Spoon.** Orange and green fruits with long, slender necks.

**Warted Types, Mixture.** Not over 4 in. in diameter.

**Small Varieties, Mixture.** Attractive assortment.

Prices above 3, each: tr. pkt., **25c**; 1 oz., **90c**.

See page 67 for Halloween Pumpkins.

## GRASS, ORNAMENTAL

**ANNUAL** (*Pennisetum ruppelianum*)

30 days 65°

**Pennisetum ruppelianum** (Fountain Grass). 3 to 4 ft. Long, graceful, purple sprays. A very striking background plant.

Tr. pkt., **35c**; ¼ oz., **\$1.00**; 1 oz., **\$3.00**.

## GREVILLEA

**ANNUAL** (*G. robusta*)

3000 S. 2-3 weeks 65-75°

**Robusta** (Australian Silk Oak). Good foliage plant. Stands heat well, tolerates sun and shade, holds foliage. August and September sowings grown at 60° produce good 2¼-in. pots for winter sales.

Tr. pkt., **40c**; ¼ oz., **\$1.35**; 1 oz., **\$4.00**.

## GYPSOPHILA

**ANNUAL** (*G. elegans*)

24,000 S. 2-3 weeks 65-75°

**ELEGANS.** Easily flowered in flats in the greenhouse or may be grown outdoors; requires about 3 months to bloom from sowing. Although the larger flowered varieties are attractive and fine, the smaller ones outlast them for bouquet work.

**Carmine.** Small, ¼-in. pink flowers.

¼ oz., **40c**; 1 oz., **\$1.20**; 4 ozs., **\$3.60**.

● **Covent Garden Market.** A very excellent strain with large and full-petaled white flowers, about 15% of which have 6 to 8 petals.

1 oz., **30c**; 4 ozs., **75c**; 1 lb., **\$2.50**; 5 lbs., **\$10.00**.

● **Paris Market.** Smaller flowered than Covent Garden Market. Used extensively in southern states for winter blooming. Holds up well.

1 oz., **40c**; 4 ozs., **\$1.20**; 1 lb., **\$3.60**.

**PERENNIAL** (*G. species*)

34,000 S. 1-2 weeks 65-75°

Valuable for outdoor summer cutting; easily and economically grown.

● **Pacifica.** 3 ft. Starry pink flowers in September and October.

Tr. pkt., **40c**; ¼ oz., **\$1.25**; 1 oz., **\$3.75**.

**PANICULATA** (Baby's Breath). The regular white hardy Gypsophila. Note that double grafted varieties like Bristol Fairy are not available from seed.

● **Double Snow Flake.** 3 ft. An improved double hardy Gypsophila. About 50% are double flowering plants.

Tr. pkt., **50c**; ¼ oz., **\$1.50**; 1 oz., **\$5.00**.

**Single White.** 3 ft. Tr. pkt., **25c**; 1 oz., **\$1.00**; 4 ozs., **\$3.00**.

**REPENS.** 6 in. An attractive, hardy rock garden plant.

**Rose.** Tr. pkt., **45c**; ¼ oz., **\$1.35**; 1 oz., **\$3.90**.





**GLOXINIA, PANZER SCARLET**  
Originator's Strain

## GLOXINIAS

**ANNUAL** (*Sinningia speciosa*) 800,000 S. 2-3 weeks 65-75°

**Gloxinias are easy to grow from seed.** A December sowing (70° and no covering for best germination), carried along at 65° during the winter will make fine, salable, 4- and 5-inch blooming plants in June. Suggest potting mix of 1/3 light organic soil, 1/3 peat, and 1/3 sand. Shade lightly in winter, more heavily in bright months, and water with care never to let them dry out. 2 1/4-in. Jiffy-Pots are fine for first transplanting.

### • PANZER SCARLET Originator's Seed

Pictured above. This deep, bright velvety red is the color in Gloxinias. The originator's strain has been reselected and is now offered with assurance that it has no peer in commercial Gloxinia seed strains. Full cultural directions sent with each packet. Tr. pkt., \$3.00; 5 tr. pkts., \$13.50.

**Tigered and Spotted.** Very attractive mixture of colors. Tr. pkt., \$1.25; 6 pkts., \$6.00.

• **Formula Mixture.** Made up of choice named separate color varieties. All colors are represented including bicolors and spotted types. Tr. pkt., \$1.25; 6 pkts., \$6.00.

**Scarlet** (Etoile de Feu)

**Violet** (Prince Albert)

**White** (Mont Blanc)

**Scarlet and White**

(Emp. Frederick)

**Violet and White**

(Emp. William)

**Rose Sensation**

**Dark Pink** (Queen Wilhelmina)

Prices above 7, each: tr. pkt., \$1.25.

**COLLECTION** of 1 tr. pkt. each above 7 separate colors, \$7.50.

### Imported Flexible-Leaved Strain

This new strain is reported by its originator to have softer and more flexible leaves than the ordinary type, permitting it to be handled and packed without danger of leaf breakage.

**Blood-Red**

**Blue**

Prices above 2, each: tr. pkt., \$2.00; 1/28 oz., \$6.00.

**Gloriosa Daisy.** See Rudbeckia, page 48.

## HELIANTHEMUM (Sun Rose)

**PERENNIAL** (*H. nummularium*) 15,000 S. 2-3 weeks 65-75°

**Mutabile.** 8 to 10 in. Very attractive, dwarf, evergreen rock plants completely covered with blooms in mixed colors during July and August. Tr. pkt., 35c; 1/4 oz., 60c; 1 oz., \$1.80.

## HELIANTHUS (Sunflower)

**ANNUAL** (*H. annuus*) 650 S. 2-3 weeks 65-75°

• **Sungold.** 4 to 5 ft. Practically 100% fully double, golden yellow Chrysanthemum-like flowers about 4 in. across. Makes a good cut flower. Sow outdoors in May for August blooming. 1/4 oz., 40c; 1 oz., \$1.20; 4 ozs., \$4.00.

## HELICHRYSUM (Everlasting)

**ANNUAL** (*H. bracteatum monstrosum*) 36,000 S. 2-3 weeks 65-75°

The most popular double Strawflower. Widely used for drying.

**Formula Mixture.** Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.40.

## HELIOPSIS

**PERENNIAL** (*H. scabra zinniaeflora*) 8000 S.

**YELLOW DAISY (NEW).** 3 ft. A great improvement on the old popular Zinnia-flowered Suneye. Semi-double, bright golden yellow flowers, 4 inches across, are freely produced on long stems from July to September. Useful for cutting. Tr. pkt. (1/16 oz.), 35c; 1/4 oz., 90c; 1 oz., \$2.70.

## HELIOTROPE

**ANNUAL** (*Valeriana officinalis*) 50,000 S. 3-4 weeks 65-75°

Heliotropes do best in heat and rich soil.

**Dwarf Regale Mixture.** 15 in. A fine, even strain with extra large, lavender-violet flower heads. Richly fragrant. Tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.25.

• **Marine.** Excellent large flowered, deep violet. Originator's seed. Tr. pkt., 55c; 1/16 oz., \$1.60; 1/4 oz., \$4.80.

## HELLEBORUS

**PERENNIAL** (*H. niger*) 3600 S. Frost germinator

**Niger** (Christmas Rose). Attractive, 2 1/2-inch white flowers; basal foliage. Seed should be frozen before sowing or sown outdoors in fall for best results. Tr. pkt., 70c; 1/4 oz., \$1.20; 1 oz., \$3.60.

**Choice Mixture.** Large flowered, white, lavender and rose. Tr. pkt., \$1.10; 1/4 oz., \$2.00; 1 oz., \$6.00.

## HEUCHERA (Coral Bells)

**PERENNIAL** (*H. sanguinea*) 750,000 S. 2-3 weeks 65-75°

Small, cup-shaped flowers borne in slender panicles. 2 ft.

**Splendens.** Crimson.

**Mixture.** Shades of red through rose to white.

Prices above 2, each: tr. pkt., 60c; 1/16 oz., \$1.75; 1/8 oz., \$3.25.

## HIBISCUS

**PERENNIAL** (*H. species*) 7000 S. 2-3 weeks 65-75°

Large, showy, tropical flowers. Needs moisture.

**Mallow Marvels Mixture.** 4 ft. Well balanced color range. Flowers first year. Tr. pkt., 30c; 1/4 oz., 90c; 1 oz., \$2.60.

• **Avalon.** 5 ft. This is an exceptional mixture of genuine F2's with colors ranging from bluish-pink to bright red. The blooming period (early July to late September) is much longer and the flowers larger than the regular Mallow Marvels. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

## HOLLYHOCK

**ANNUAL** (*Althaea rosea*) 2000 S. 2-3 weeks 70-80°

Plants should be banded or Jiffy-Potted early before tap roots grow down.

• **Indian Spring.** 4 to 5 ft. Starts to bloom 5 months from seed sowing and continues until frost. Semi-double, light pink and rose flowers are borne mostly on central spikes. Tr. pkt., 45c; 1/4 oz., 80c; 1 oz., \$2.40.

**PERENNIAL** (*Althaea rosea*) 3000 S. 2-3 weeks 65-75°

6 to 8 ft. Popular and well known perennial.

### • TRIUMPH SUPREME

Extra large, fully double flowers in unusual delicate art shades. Most blooms are attractively fringed. May be handled as an annual—if sown indoors in February and transplanted to the open in spring, all plants will flower nicely the same summer. Tr. pkt., 55c; 1/4 oz., \$1.00; 1 oz., \$3.00.

CHATER'S DOUBLE. The standard double.

**Newport Pink**

**Scarlet**

**Deep Rose**

**Sulphur-Yellow**

**White**

**Mixture**

Prices above 6, each: tr. pkt., 35c; 1/4 oz., 65c; 1 oz., \$2.00.

HUNNEMANNIA and IBERIS ON PAGE 26.

The dot (•) indicates varieties most dependably satisfactory in our experience and observation.



# Impatiens "SULTANAS"

ANNUAL (*I. holstii* and *sultanii* hybrids)

66,00 S. 3-4 weeks 70-75°

In our opinion there is no finer annual for shady locations than Impatiens. Under these conditions the dwarf varieties attain approximately the size of bedding Petunias. They are covered with blossoms of intense color that possess a luminous sheen seldom equalled in any bedding plant. Here's the answer to those customers who want something for "that shady spot."

It's important for most bedding purposes to confine your use to the dwarf strains which retain much better plant habit in late stages of growth. Impatiens tolerate a wide range of temperature and will grow well with most spring subjects. Try them from seed—one of the few annual subjects which can be depended upon to produce **an abundance of colorful blooms** throughout the summer in shade. Dwarf varieties also make appealing pot plants in 3's and 4's.

For best results, we suggest sowing seed as soon as possible after receiving it. Seed should be germinated at a minimum temperature of 70-75° F. and kept moist. This seed is very sensitive to lack of moisture and low temperatures.

DWARF. 6 to 8 inches.

## ● DWARF MIXTURE



Bright mixture of dwarf varieties including above colors and other shades. Excellent for shade bedding.

Tr. pkt. (1/128 oz.), **85c**; 1/64 oz., **\$1.50**; 1/16 oz., **\$4.50**; 1/4 oz., **\$13.50**.

● **Dwarf Bright Rose.** A luminous shade of deep rose. Compact and free flowering.

**Blaze.** Bright scarlet-orange with contrasting dark foliage. Dwarf, spreading growth.

**Pinkie.** Large flowers of bright coral-rose with salmon cast. This is a refreshingly different color in dwarf Impatiens.

Prices above 3, each: tr. pkt. (1/128 oz.), **85c**; 1/64 oz., **\$1.50**; 1/16 oz., **\$4.50**; 1/4 oz., **\$13.50**.

## ● RED JEWEL (NEW—A Ball Origination) **HYBRID**

Intense, deep cherry-red flowers against a background of dark green foliage. An entirely new color in Dwarf Impatiens.

Tr. pkt. (1/128 oz.), **\$2.50**; 1/32 oz., **\$7.50**; 1/8 oz., **\$22.50**.

● **Pink Sprite.** **HYBRID** Pale shrimp or flesh-pink flowers on compact plants. Blends well with darker colors.

● **Pixie White.** **HYBRID** The first absolutely snow-white Impatiens from seed. Supply limited.

Prices above 2, each: tr. pkt. (1/128 oz.), **\$2.50**; 1/32 oz., **\$7.50**; 1/8 oz., **\$22.50**.

● **Dwarf Bright Orange.** Very uniform, extra dwarf, flat, spreading growth. This is an outstanding bright shade of orange and should sell very readily as a bedding subject for shade. Similar to European strains of *Beauty of Klettgau*, but our trials indicate it is superior in uniform dwarf habit.

Tr. pkt. (1/128 oz.), **\$1.25**; 1/64 oz., **\$2.25**; 1/16 oz., **\$6.75**; 1/4 oz., **\$20.00**.

SEMI-DWARF. 9 to 12 inches.

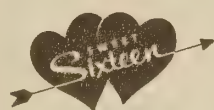
**Beauty of Klettgau.** The same intense color as Dwarf Bright Orange, but somewhat taller. *Orig. Seed.*

**Salmon-Rose** **Autumn Glow.** Brilliant orange-scarlet flowers.

Prices above 3, each: tr. pkt. (1/128 oz.), **85c**; 1/64 oz., **\$1.50**; 1/16 oz., **\$4.50**; 1/4 oz., **\$13.50**.

TALL. 10 to 12 inches.

**Holsti Mixture.** Bright mixture of pink, rose, salmon, orange, red, orchid and purple shades. Tr. pkt. (1/64 oz.), **45c**; 1/16 oz., **\$1.35**; 1/4 oz., **\$4.00**.



BE SURE TO INCLUDE ALL OF THE  
SWEET SIXTEEN VARIETIES  
ON YOUR SPRING SEED LIST THIS YEAR

**NOTE:** With our Sweet Sixteen Kit which you will receive this year in January, there will be a 14x22 inch, full color poster of Impatiens—hang this poster where your customers can see it this spring and you're sure to increase sales of this worth-while subject.



IMPATIENS, DWARF BRIGHT ROSE



IMPATIENS, PIXIE WHITE (Above)

IMPATIENS, DWARF BRIGHT ORANGE (Below)





## HUNNEMANNIA (Bush Escholtzia)

**ANNUAL** (*H. fumariaefolia*). 8000 S. 2-3 weeks 65-75°

**Sunlite**. 2 ft. Brilliant canary-yellow, semi-double.  
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

## IBERIS (Hardy Candytuft)

**PERENNIAL** (*I. species*) 11,500 S. 2-3 weeks 65-75°  
Plants flower second season from seed.

**Gibraltarica**. 12 in. Large flowered lilac.  
Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50.

**Sempervirens**. 12 in. White flowers in late May. Needs ample moisture.  
Tr. pkt., 55c; ¼ oz., \$1.35; 1 oz., \$4.75.

## IMPATIENS

See page 25.

## IPOMOEA

See Morning Glory and Moonflower, page 30.

## INCARVILLEA

**PERENNIAL** (*I. species*) 6000 S. 2 weeks 65-75°  
Funnel-shaped flowers borne in clusters.

**Grandiflora Brevipes**. 18 in. Brilliant crimson-rose flowers.

**Delavayi**. 2 ft. Large, Gloxinia-like rosy purple flowers.

Prices above 2, each: tr. pkt., 60c; ¼ oz., \$1.80; 1 oz., \$5.40.

## IRIS

**PERENNIAL** (*I. species*) 7000 S. Frost germinator  
Plants bloom second season from seed.

**Dichotoma** (Vesper Iris). 2 ft. Assorted colors; fragrant.  
Tr. pkt., 45c; ¼ oz., \$1.30; 1 oz., \$3.90.

**Kaempferi** (Japanese Iris). 2 ft. A wide variety of colors with many doubles. Tr. pkt., 45c; ¼ oz., \$1.30; 1 oz., \$3.90.

## KALANCHOE

**ANNUAL** (*K. blossfeldiana*) S. See below 1-2 weeks 65-75°

Because of its showiness and ability to hold up well in the home, this plant is becoming more widely used each year. While they flower normally in January and February, they may be had in bloom for Christmas from a January sowing, if shaded for about 4 weeks starting September 1. April sowings produce good 3's for the following winter. Need 60° minimum nights, good air circulation.

● **Tom Thumb**. 2,500,000 S. 8 in. Pictured in color on page 14. Perfectly rounded, symmetrical plants literally covered with small bright scarlet flowers. A January or February sowing will provide fine 4- or 5-in. specimens for next winter's sales. Ours is the original true-to-name strain of this popular variety.  
Tr. pkt., \$1.00; 1/28 oz., \$3.00; 1/64 oz., \$5.50; 1/32 oz., \$10.00.

● **Brilliant Star**. 1,000,000 S. 18 in. A fine pot plant, producing flowers three times the size of the common varieties and of a brighter, fiery red color. Also valuable for cutting.  
Tr. pkt., \$1.00; 1/28 oz., \$2.10; 1/64 oz., \$3.85; 1/32 oz., \$7.00.

**Vulcan**. An improved Tom Thumb. Larger flowered, a brighter red, and somewhat sturdier in growth.  
Tr. pkt., \$1.25; 1/28 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$12.00.

## KOCHIA (Summer Cypress)

**ANNUAL** (*K. childsii*) 45,000 S. 1-2 weeks 65-75°

**Childsii**. 2 ft. Symmetrical oval plants stay green throughout the entire season. Used for summer hedges.  
Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.80.

## LARKSPUR

**ANNUAL** (*Delphinium ajacis*) 8000 S. 3-4 weeks 55-65°

**For Early Summer Cut Flowers Outdoors:** If a sowing is made outdoors by growers in the near South 6 or 7 weeks before the ground freezes, plants well enough established to winter over in all except the most severe seasons can be produced. In the North sowing should be done as early in the spring as the soil can be worked—just as soon as the frost is out of the ground. Figure on 2 lbs. of seed to sow an acre or 1 oz. for 600 to 700 ft. of row, if seeds are sown about 1 inch apart. Height outdoors 2 to 3 ft.

**Under Glass—Spring Flowering:** For indoor growing, Larkspur is a nice crop to follow late Mums. Well started 3-inch Jiffy-Potted plants should be ready, and are produced by a September to January sowing. Space at least 12x12 in. on ground; 10x10 in. on raised beds. Maintain night temperature of not over 50°. Height indoors 4 to 5 ft.

**Germination:** Larkspur seed doesn't germinate well in high temperatures. If it must be sown when hot, better do so in flats set under a bench or in a cool shed. It requires 2 to 3 weeks to come through, sometimes longer.

**PLEASE NOTE:** Pound price applies to ½ pound or more of one variety only—not allowed for several varieties totaling 1 pound. All varieties listed below are base branching except the Hyacinth Flowered.

### "7 BEST"

This list is based on our greenhouse flowering trials. Generally strains which are found best under glass seem also best adapted to outdoor culture.

- **Salmon Supreme**. Extra fine, medium salmon-rose.
- **Dark Blue Supreme**. The best deep violet-blue.
- **Lilac Supreme**. The best clear lavender; no orchid shading.
- **White Supreme**. The most vigorous white in our trials.
- **Regal Salmon-Pink**. A shade lighter than Salmon Supreme.
- **Super Majestic Light Blue**. An excellent light blue; outstanding.
- **Brilliant Rose**. Deepest rose of all; fully double.
- **7 Best Mixture**. Blended by formula from these 7 varieties.

Prices above 8, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

**COLLECTION:** One tr. pkt. each of above 7 named varieties for \$2.35.

## Other Good Varieties

**Super Majestic White** (White King). Long-stemmed pure white.

**Regal White**. Fine, compact spikes.

● **Regal Rose**. Rich deep rose with fine heavy spikes.

Prices above 3, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

**HYACINTH-FLOWERED.** Produces one long non-branching spike. Early and non-shattering. Sow November-December for April cut. Space about 4x5 inches.

<b>Dark Blue</b>	<b>White</b>	<b>Mixture</b>
<b>Lilac-Lavender</b>	<b>Pink</b>	

Prices above 5, each: tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.

## LANTANA

**ANNUAL** (*L. camara*) 1300 S. 6-7 weeks 65-75°

Very showy. One of the most satisfactory bedding subjects for areas where summer heat is excessive. Must be sown early with bottom heat.

**Dwarf Mixture**. 16 in. All colors.

Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

## LATHYRUS

**PERENNIAL** (*L. latifolius*) 500 S. 2-3 weeks 65-75°

**LATIFOLIUS** (Hardy or Everlasting Sweet Pea). 7 ft. Abundant source of short-stemmed flowers.

<b>Pink Beauty</b>	<b>White Pearl</b>	<b>Red</b>	<b>Mixture</b>
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Prices above 4, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$1.90.

## LAVANDULA (Lavender)

**PERENNIAL** (*L. vera*) 32,000 S. 2-3 weeks 65-75°

**Munstead Strain**. 12 in. Freely produces large sweet-scented flowers a month earlier than the common Lavender.  
Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.



## LIATRIS (Gayfeather)

**PERENNIAL** (*L. species*) 9500 S. 3-4 weeks 65-75°  
Excellent cut flowers with long, decorative, bold spikes. All are easily grown. 3 to 5 ft.

### Scariosa Purple

### Scariosa White

● **Pycnostachya.** Extra long-stemmed with long, 15- to 18-inch flower spikes of rosy purple. Finest cut-flower kind.

Prices above 3, each: tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

● **September Glory.** Tall growing with purple spikes. Tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.00.

**Elegans.** Large, starry blooms of pure lavender with snow-white center. Tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.00.

## LILIES (Lilium)

**PERENNIAL** (*Lilium species*) 8000 S. 3-5 weeks 65-75°  
Usually bloom the second season from seed.

● **White Queen** (Longiflorum). This is the largest and finest seed propagated Lily we know of. Produces a plentiful quantity of real quality flowers in 16-18 months from seed. Pure white. ½ tr. pkt., 75c; tr. pkt., \$1.25; ⅛ oz., \$2.75; ¼ oz., \$5.00.

**Tenuifolium** (Coral Lily). Freely produces medium sized flowers of brilliant coral-red. 18-20 in. tall. May flowering. Tr. pkt., 60c; ¼ oz., \$1.50; 1 oz., \$4.50.

## LINARIA

**ANNUAL** (*L. maroccana*) 600,000 S. 2-3 weeks 65-75°  
MAROCCANA (Miniature Snapdragon).

**Northern Lights.** An improved taller growing Linaria containing many new bright shades. Tr. pkt., 40c; ¼ oz., \$1.35; 1 oz., \$4.00.

## LINUM

**PERENNIAL** (*L. species*) 8500 S. 3-4 weeks 65-75°  
**Perenne** (Perennial Flax). 2 ft. Attractive blue flower on slender stems. Tr. pkt., 30c; 1 oz., 90c.

**Flavum Compactum.** 8 in. Golden yellow flowers with dark green foliage. Ideal for rock gardens. Tr. pkt. (⅓ oz.), 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

## LOBELIA

**ANNUAL** (*L. erinus*) 700,000 S. 2-3 weeks 65-75°

For partially shaded locations and for plant combinations, Lobelias provide the brilliant blues lacking in most plants. Many growers prick off seedlings in bunches of 3 or 4 instead of individually.

**COMPACTA.** 6 in. Of dwarf, compact habit. Good edger.

● **Blue Gown.** Free flowering deep blue. Very fine.

**Cambridge Blue.** Very dwarf, light blue.

**Mrs. Clibran Imp.** Deep blue; white eye and light foliage.

**Rosamond.** Rich violet-rose with white eye.

**White Lady.** Clear glistening white.

Prices above 5, each: tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

### ● CRYSTAL PALACE

Very dwarf deep blue with dark bronzy green foliage. A fine variety. Pictured in color on page 14. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.



LOBELIA, CRYSTAL PALACE

## LOVE APPLE

**ANNUAL** (*Solanum aculeatissimum*) 10,400 S. 2 weeks 65-75°  
These colorful plants are widely used for floral arrangements when dried.

**Orange Fruited.** 2 ft. Long, thorny branches of bright orange fruits about 1½ inches across. Tr. pkt., 50c; ⅛ oz., \$1.75.

See also Cherries, Christmas, page 16; Peppers, Christmas, page 31.

## LUNARIA (Honesty or Money Plant)

**PERENNIAL** (*L. biennis*) 1500 S. 2-3 weeks 65-75°  
Large, papery seed-pods used in dried bouquets. 2 ft.

**Mixture.** Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.40.

## LUPINE (Lupinus)

**ANNUAL** (*L. Hartwegi*) 1300 S. 2-3 weeks 65-75°

**GIANT KING** (Improved Hartwegi). 3 ft. Makes a nice spring cut-flower crop flowered in 3-inch pots from a January sowing spaced close so as to flower one spike to a plant.

● **Oxford Blue.** Deep blue. **Sky-Blue** **White** **Mixture**  
Prices above 4, each: tr. pkt. (¼ oz.), 25c; 1 oz., \$1.00; 4 ozs., \$3.00.

**PERENNIAL** (*L. polyphyllus*) 1000 S. 3-4 weeks 65-75°  
Hardy Lupine. 4 ft. Fine for cutting. Requires a well drained location and thrives best in cool climate.

**Harkness Regale Mixture.** The standard fine mixture. ¼ oz., 35c; 1 oz., \$1.10.

### ● RUSSELL STRAIN

Long, closely set spikes of extra large florets in rich self colors and unusual bicolors. Developed by a famous English specialist. Straight color selections from this famous strain are offered below.

**RESELECTED STOCK** (*Originator's packets*): 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50.

**REGULAR SEED:** Tr. pkt. (⅓ oz.), 40c; ¼ oz., 70c; 1 oz., \$2.10; 4 ozs., \$6.50.

**Blue Shades** **Red Shades**  
**Yellow Shades**  
**Rose and Pink Shades**  
**White and Cream Shades**

Prices above 5, each: tr. pkt. (⅓ oz.), 40c; ¼ oz., 70c; 1 oz., \$2.10; 4 ozs., \$6.50.



## LYCHNIS

**PERENNIAL** (*L. species*) 64,000 S. 3-4 weeks 65-75°  
**Chalcedonica** (Maltese Cross). 3 ft. Scarlet flowers in heads. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

**Forrestii.** 15 in. Mixture of rose, lilac, white and red. Excellent cut flower and bedding plant. Tr. pkt., 35c; ¼ oz., \$1.10; 1 oz., \$3.30.

## MARIGOLDS

See pages 28 and 29.

## MARVEL OF PERU

**ANNUAL** (*Mirabilis jalapa*) 325 S. 2-3 weeks 65-75°  
**Mixture.** 2½ ft. A uniform strain of old-fashioned "Four O'Clocks." Fine range of bright colors. Roots can be stored indoors over winter in North. 1 oz., 40c; 4 ozs., \$1.20.





**PETITE MARIGOLDS**  
(See below)

### ● PETITE

ALL-AMERICA SELECTION Pictured above. An extra dwarf strain of Marigolds with plants so dense and free flowering that the foliage is scarcely visible. Its extra early blooming habit makes it ideal for Market-Pak or flat sales. Grows about 6 in. tall and 10 in. wide.

**Petite Orange.** Fully double, bright orange flowers.

**Petite Yellow.** A clear, strong yellow; full double.

**Petite Gold.** Between Orange and Yellow in color.

**Petite Harmony.** Golden anemone crest with deep mahogany guard petals; completely double.

**PETITE MIXTURE.** All of the above varieties blended by formula.



Prices above 5, each: tr. pkt., 45c; 1/4 oz., \$1.35; 1 oz., \$4.00; 4 ozs., \$12.00.

### ● COLOR MAGIC

Bushy growing plants, similar to the popular Spry, but with fully double, 1 1/2-inch flowers in rich shades of yellow and orange irregularly marked dark red. Color changes as season progresses. Here is a Marigold which combines an excellent name, a dwarf, salable habit, and real bright "eye appeal." Should be on every bedding plant grower's list. *Orig. Seed.*  
Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.25; 4 ozs., \$6.75.

### CUPIDS

A combination of large flowers and dwarf habit, an entirely different dwarf Marigold. Extremely uniform, these compact, odorless, bushy plants, produce 2 1/2-inch Mum-like blooms. Cupids reach 10 in. in open beds, but will bloom at a height of 4 to 6 in. in 3-in. pots.

● **Cupid Orange.** Bright orange.

● **Cupid Yellow.** Bright creamy yellow.

● **Cupid Gold.** Midway between Cupid Yellow and Orange in color.

● **Cupid Mixture.**

Prices above 4, each: tr. pkt., 50c; 1/8 oz., 90c; 1/4 oz., \$1.75; 1 oz., \$5.00.

# Dwarf Marigolds

## Bedding or French

**ANNUAL** (*Tagetes patula*)

9000 S. 1-2 weeks 65-75°

The demand for Dwarf Marigolds is increasing every year; be sure to grow plenty for your bedding plant trade. Double varieties, such as Cupid, Spry, etc., are also valuable for combination boxes and pots. Will flower in about 8 weeks from seeding, for "pak" or flat sales.

## "6 BEST" FOR BEDDING

### ● SPRY

10 in. Our most popular Marigold. Well known for its brightly contrasting golden yellow Anemone crest over deep rich mahogany guard petals. Dwarf and free flowering. Tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00; 4 ozs., \$6.00.

● **Ball Dwarf Harmony.** 10 in. Similar to Spry, except for color which is bright orange rather than yellow. Very rich effective color combination—deep maroon guard petals. *Ball Orig. Seed.*

● **Butterball.** 8 in. Most dwarf Marigold in our trials. Light butter-yellow petals tipped wine-red. Guard petals also wine-red. Compact habit.

● **Lemon Drop.** 9 in. Dwarf, compact plants with medium small, fully double, lemon-yellow flowers. Considered by many an improvement over Yellow Pygmy.

● **Sunkist.** 9 in. Dwarf and compact; deep golden orange flowers.

● **Rusty Red.** 13 in. Large, rust-red, fully double flowers, 2 inches across.

● **6 Best Dwarf Mixture.** Balanced mixture of the above six.

Prices above 6, each: tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00; 4 ozs., \$6.00.

**Harmony.** 14 in. Attractive Anemone type flowers; orange crest and maroon guard petals.

**Pot O' Gold.** 15 in. Deep orange. Large flowers loosely formed with full centers and broad, overlapping petals. Flowers continuously in warmest weather.

**Primrose.** 12 in. Dwarf plants with fully double flowers an inch in diameter. Color is a rich golden yellow.

● **Scarlet Glow.** 12 in. Bright bronzy red, double flowers 1 1/2 to 2 inches across are borne on dwarf plants.

**Tangerine.** 13 in. 2-in. double flowers of bright tangerine-orange.

● **Yellow Pygmy.** 10 in. Excellent free flowering, dwarf, double lemon-yellow.

**Dwarf French Double Mixture.** 12 in. Medium dwarf sorts.

Prices above 7, each: tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00; 4 ozs., \$6.00.

## SINGLE VARIETIES

● **Flash.** 14 in. Mahogany flowers with golden yellow margins.

● **Naughty Marietta.** 16 in. Semi-dwarf, bushy plants with finely netted leaves. Freely produces 2-inch, single, golden yellow flowers, each with an attractive dark red eye.

**Red Head.** 12 in. Anemone-flowered. Orange crest, tipped maroon, and copper-red to mahogany guard petals.

**Sunny.** Similar to Naughty Marietta, but clear yellow.

Prices above 4, each: tr. pkt., 30c; 1/4 oz., 60c; 1 oz., \$1.80; 4 ozs., \$5.40.

## DWARF BUSH.

**Dainty Marietta.** 12 in. Flowers are quite similar to the popular Naughty Marietta, but are more freely produced on extra dwarf, compact plants.

● **Lulu.** Dense, rounded, free flowering plants with fine, lacy foliage. Small, lemon-yellow flowers.

● **Ursula.** Same as above variety, but flowers are golden yellow.

Prices above 3, each: tr. pkt., 40c; 1/4 oz., \$1.20; 1 oz., \$3.60.

SEE ALSO SPUN GOLD ON NEXT PAGE.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.



# Tall Marigolds

## Cutting or African

**ANNUAL** (*Tagetes erecta*)

10,000 S. 1-2 weeks 65-75°

Most any grower will find a spring crop of cut-flower Marigolds quite profitable. A January or February sowing, spaced about 4x5 inches, disbudded, and grown single-stem, will flower April and May. The All-Double and Carnation-flowered types are most popular, but be sure to include some of the Chrysanthemum-flowered Mission Giants for their excellent novelty value.

## "5 BEST" FOR CUTTING

- **Ball Giant Orange.** Similar in type to All-Double Orange but somewhat larger flowered and of a more uniform, deep bright orange color. *Ball Orig. Seed.*
- **All-Double Orange.** This belongs to the Fistulosa or large flowered, solid quilled-petaled type. Nearly 100% double. An excellent, long-stemmed cut-flower strain.
- **All-Double Lemon.** Identical to the above, but a clear lemon-yellow.
- **Gold Improved.** Odorless. The popular Carnation-flowered intense orange. Excellent for greenhouse forcing.
- **Yellow Supreme.** Odorless. Similar to Gold Improved but with flowers a rich creamy yellow.
- **Five Best Cutting Mixture.** Our own carefully compounded formula mixture of the foregoing varieties balanced according to their commercial value.

Prices above 6, each: tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.75; 4 ozs., \$6.00.

## Chrysanthemum-Flowered Types

Produces almost perfect incurved, Chrysanthemum-like blooms. Exceptionally vigorous and free branching in growth.

- **Early Sunshine** ALL-AMERICA SELECTION 20 in. Early and free flowering with dozens of 1½-inch, Mum-like flowers of bright lemon-yellow. Blooms continuously throughout our hot summer. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.25.
- **Glitters.** Large, Chrysanthemum-like flowers of soft golden yellow on long, strong stems. Long blooming period. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.
- **Goldsmith** (Mission Giant). Large, light golden orange; Chrysanthemum-flowered. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.
- **Happiness** (Golden Crown). 16 in. Early and blooms very profusely with 2½-inch Mum-type flowers of rich golden yellow. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.25.
- **Mammoth Mum.** The largest of this type. Light sulphur-yellow. Tr. pkt., 40c; ¼ oz., 90c; 1 oz., \$3.00.
- **Mission Giant Mixture.** A Chrysanthemum-flowered mixture; large blooms. Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.75; 4 ozs., \$6.00.

## Winter Flowering

Sow in late summer or early fall for plenty of winter cutting material.

- **Colorado Sunshine.** Double, 3- to 4-inch, butter-yellow blooms. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.
- **Lieb's Brown and Gold.** 2 in. blooms of gold and dark red. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

## ● SPUN GOLD (NEW)

ALL-AMERICA SELECTION All-America winner for 1960. Pictured at right. 12 in. Erect, bushy plants bearing a multitude of double, incurved, 3-inch flowers of bright, golden yellow. Similar to the Cupid types but much earlier, and blooms more profusely. Tr. pkt., (1/16 oz.), 85c; ¼ oz., \$2.50; 1 oz., \$7.50; 4 ozs., \$22.50.



CRACKERJACK

## Other Cut-Flower Varieties

### ● CRACKERJACK

A mixture of extra large, 100% double, Carnation-flowered blooms in shades of orange, gold and yellow. Much earlier and a better grower than Sunset Giants. Pictured above. Tr. pkt., 40c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.

**Guinea Gold.** A Carnation-flowered golden orange; long-stemmed, freely produces loosely-petaled, 3-inch flowers.

Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.75; 4 ozs., \$6.00.

**Man-in-the-Moon.** Fully double, Carnation-flowered, pale ivory-yellow. Blends well with darker colors. Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.75.

**Odorless Carnation-Flowered Mixture.** Ranges in color from deep orange to light yellow. Carnation-flowered.

Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.65; 4 ozs., \$5.50.

## HYBRID MARIGOLDS

### ● ORANGE CLIMAX (NEW). 30 in. The World's first F<sub>1</sub> Hybrid Giant

African Marigold. Uniformly full double bright orange flowers up to 5 inches across are carried on sturdy plants. Being a hybrid, this variety is more free flowering and vigorous than regular Marigolds.

### ● YELLOW CLIMAX (NEW). 30 in. Identical to Orange Climax except for its brilliant canary-yellow blooms.

Prices above 2, each: tr. pkt. (1/64 oz.), \$1.00; 1/16 oz., \$3.50; 1/8 oz., \$6.50; ¼ oz., \$12.00.





## MATRICARIA (Feverfew)

**PERENNIAL** (*M. capensis*) 145,000 S. 2-3 weeks 65-75°  
CAPENSIS. 18 in. grown outside; 3 to 5 ft. when grown in greenhouse. Sow in October and November for greenhouse cutting late April through Decoration Day. A January sowing will bloom outdoors in July.

### ● BALL DOUBLE WHITE IMPROVED

This strain has been carefully reselected for fully double flowers, and our own trials show it to be well over 90% true, double, imbricated blooms. Nearly all the single and Anemone types have been removed. *Ball Orig. Seed.*  
Tr. pkt., \$1.00; 1/16 oz., \$2.00; 1/4 oz., \$6.00; 1 oz., \$18.00.

**Double White, Regular.** A regular strain of double and semi-double Matricaria with some showing yellow centers.  
Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$2.00; 1 oz., \$6.00.

**ALL-DOUBLE DWARF.** 8 to 10 in. Uniformly dwarf and compact plants which are a solid mass of ball-shaped flowers slightly over 1/2 inch across. Very attractive for border work and makes an excellent pot plant.

● **Golden Nuggets.** Rich butter-yellow.

● **Snow Puffs.** Pure white; very effective.

Prices above 2, each: tr. pkt., 35c; 1/16 oz., 60c; 1/4 oz., \$2.00.

**Foxglove.** See Digitalis, page 21.

## MESEMBRYANTHEMUM

**ANNUAL** (*M. criniflorum*) 100,000 S. 2-3 weeks 65-75°  
**Criniflorum** (Livingstone Daisy) 6 in. Spreading plants literally covered with 1-in. flowers in many attractive colors. Needs full sun and a dry location. Tr. pkt., 50c; 1/4 oz., \$1.20; 1 oz., \$3.60.

## MIGNONETTE

**ANNUAL** (*Reseda odorata*) 27,000 S. 2-3 weeks 65-75°  
**Ball Forcing Strain.** 16 in. Earliest and whitest forcing variety. Sow in January for spring cutting; very fragrant.  
Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

## MIMOSA

**ANNUAL** (*M. pudica*) 4500 S. 3-4 weeks 65-75°  
**Pudica** (Sensitive Plant). Leaves collapse when touched. Interesting novelty. Tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00.

## MYOSOTIS (Forget-Me-Not)

**ANNUAL** (*M. oblongata*) 44,000 S. 2-3 weeks 65-75°

### ● BALL EARLY

Free flowering, spring blooming plants of this always popular bright blue flower can be had from a sowing made in December or January. This should not be confused with the other types listed with the perennials.  
Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.50.

**PERENNIAL** (*M. species*) 42,000 S. 2-3 weeks 65-75°  
● **Blue Bird** (Oblongata). 31,500 S. 12 in. Standard blue for spring greenhouse flowering. Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

**Palustris Semperflorens.** 12 in. Dwarf blue. Flowers from early spring until autumn. Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

**VICTORIA.** A dwarf, compact strain. 6 to 8 in.

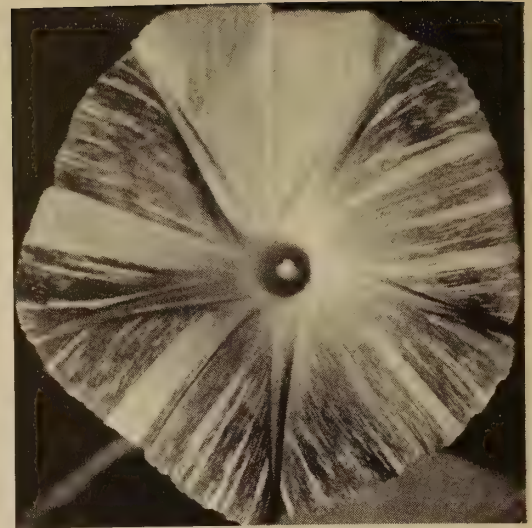
**Dark Blue      Rose      White      Dwarf Mixture**

Prices above 4, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.65; 1 oz., \$4.90.

**ALPESTRIS.** Biennial.

● **Royal Blue** (Indigo Blue). 12 in. Deep rich blue.  
Tr. pkt., 40c; 1/4 oz., 85c; 1 oz., \$3.00.

### NEW MORNING GLORY FLYING SAUCERS



## MORNING GLORY (Ipomoea)

**ANNUAL** (*Convolvulus species*) 650 S. 3-4 weeks 65-75°  
These vines are easily grown and most varieties are profuse bloomers, if grown in soil of low fertility and not over-watered. Sow 4 or 5 weeks before bedding sales. Band or pot seedlings 1 week after germination to prevent transplanting shock.

**FLYING SAUCERS (NEW).** Large flowers in varying striped combinations of bright blue and powdery white create an illusion of whirling motion. An interesting novelty.  
Tr. pkt. (1/4 oz.), 90c; 1 oz., \$2.70; 4 ozs., \$8.00.

● **Pearly Gates.** Clear white with slight cream shading in throat.  
Tr. pkt. (1/4 oz.), 30c; 1 oz., 90c; 4 ozs., \$3.00.

● **Heavenly Blue.** Clark's Mammoth Early Free Flowering Strain. The popular bright blue shade that is a solid sheet of vivid color all summer. Tr. pkt. (1/2 oz.), 40c; 1 oz., 75c; 4 ozs., \$2.25.

**Scarlett O'Hara.** Vivid crimson-scarlet. Improved climbing strain.  
Tr. pkt. (1/4 oz.), 45c; 1 oz., \$1.25.

## MOONFLOWER

**ANNUAL** (*Ipomoea noctiflora*) 110 S. 3-4 weeks 65-75°  
**Black-Seeded.** Large flowered, climbing, white Moonflower.  
Tr. pkt. (1/2 oz.), 40c; 1 oz., 75c; 4 ozs., \$2.25.

## NAEGELIA (Temple Bells)

**ANNUAL** (*Smithiantha hybrida*) 1,500,000 S. 2-3 weeks 65-75°  
● **Art Shades.** Dwarf pot plants with Gloxinia-like leaves and clusters of slender, tubular flowers in shades of pink, red, yellow and orange; all with spotted throats. This showy plant requires the same culture as Gloxinias. Tr. pkt. (about 1000 seeds), \$1.50.

## NASTURTIIUM

**ANNUAL** (*Tropaeolum majus*) 175 S. 2-3 weeks 65-75°  
Richly colored, long-stemmed, fragrant flowers are excellent for cutting or bedding; does best in cool climate.

**DOUBLE GLEAM TYPE.** Of trailing or climbing habit. Vigorous growers; fine for greenhouse cutting or window boxes.

● **Golden Gleam.** Golden yellow. ● **Scarlet Gleam.** A brilliant scarlet.

● **Gleam Mixture.** A complete mixture of all double varieties.

Prices above 3, each: 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.00.

**DWARF DOUBLE TYPE.** Fully as double and large as the Gleam type, but of dwarf, compact, rounded growth. 12 to 15 in. high.

### ● CHERRY ROSE

Bright color. Very compact and exceptionally free flowering.  
1 oz., 45c; 4 ozs., \$1.50; 1 lb., \$4.50.

**Golden Globe.** Golden yellow. **Scarlet Gem.** Brilliant scarlet.  
Mixture of all colors in this dwarf class.

Prices of above 3, each: 1 oz., 45c; 4 ozs., \$1.50; 1 lb., \$4.50.

**SINGLE VARIETIES.** 225 S.

**Dwarf Mixture** of all colors in this class.

1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.00.



## NEMESIA

**ANNUAL** (*N. strumosa suttonii*) 90,000 S. 2-3 weeks 65-75°  
18 in. This large-flowered, long-stemmed strain is fine for spring cutting.

**Mixture** of all colors in this cut flower class.  
Tr. pkt., 25c; 1/8 oz., 60c; 1/2 oz., \$2.00.

**NANA COMPACTA.** 6 to 8 in. Ideal for combination work.

**Fire King.** Cerise-scarlet. **Orange Prince.** Rich orange.

**Triumph Mixture.** A very attractive mixture with a wide range of colors.

**Prices** above 3, each: tr. pkt., 35c; 1/8 oz., 75c; 1/2 oz., \$2.50.

## NEPETA

**PERENNIAL** (*N. mussini*) 52,000 S. 2-3 weeks 65-75°

**Mussini** (June-flowering "Catnip"). 12 in. Neat bushes with light blue flowers; aromatic. Tr. pkt., 30c; 1/4 oz., 90c; 1 oz., \$2.70.

## NICOTIANA (Flowering Tobacco)

**ANNUAL** (*N. affinis*) 400,000 S. 1-2 weeks 65-75°  
Showy plants with a pleasing evening fragrance.

**Crimson Bedder.** 15 in. Compact, very free flowering. Deep crimson-red. Tr. pkt., 30c; 1/4 oz., 60c; 1 oz., \$2.00.

**White Bedder** (New). 15 in. Similar in habit and freedom of bloom to Crimson Bedder, but the glistening white flowers are much more showy. Try this as a background for colored dwarf Petunias. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

**White.** 3 ft. Large-flowered. Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.20.

### ● SENSATION MIXTURE

(Daylight Strain). 2 ft. The flowers of this Nicotiana have the unique feature of remaining open all day, even in brilliant sunshine. They have the same delightful evening scent as the older types, while the colors range from white through many shades of cream and pink to purple and deep crimson. Plants are bushy in habit, ideal for bedding. Tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.25.

## NIEREMBERGIA (Cup-Flower)

**ANNUAL** 175,000 S. 2-3 weeks 65-75°

### ● PURPLE ROBE

6 in. This is a wonderful bedding or edging plant. The 1-inch, deep violet-blue flowers are lavishly produced on dwarf plants throughout the summer. Retains its brilliance even under strong sunlight. Sow several weeks before most bedding plants to get early start. Tr. pkt., 50c; 1/32 oz., \$1.75; 1/16 oz., \$3.25; 1/4 oz., \$9.75.

## OENOTHERA

**PERENNIAL** (*O. species*) 350,000 S. 2-3 weeks 65-75°  
Showy sun loving plants with large flowers.

**Missouriensis.** 12 in. Large-flowered yellow. Tr. pkt., 35c; 1/4 oz., \$1.75; 1 oz., \$5.25.

**Painted Daisy.** See Pyrethrum, page 48.

## PANSY

See pages 32 and 33.

## PASSIFLORA (Passion Flower)

**ANNUAL** (*P. caerulea grandiflora*) 3600 S. 2-4 weeks 65°

**Caerulea.** Greenhouse climber with large pale pink flowers surmounted by a purple and white crown. Tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.65; 1 oz., \$5.00.

## PEONY

**PERENNIAL** (*Paeonia species*) 100 S. Frost germinator

**Garden Varieties, Mixture.** Both double and single types are represented in this assortment of colors. Blooms in 3 years from seed. 100 seeds, \$2.50.

## PEPPER, CHRISTMAS

**ANNUAL** (*Capsicum species*) 9000 S. 3-4 weeks 65-75°

Very showy pot plants for the December holiday season. Sow April to July, finishing one plant in a 3- or 4-inch pot or three in a 5. Does best grown under glass throughout summer.

● **Ball Christmas Pepper.** See this in color on page 34. Compact plants with a profusion of cone-shaped fruit that is first green, later turning purple and then red. *Ball Orig. Seed.* Tr. pkt., \$1.00; 1/4 oz., \$3.00; 1 oz., \$9.00.

● **Candle Pepper** (Craigi Christmas Pepper). Similar to Ball Christmas Pepper, but the plants are smaller leaved. Small fruit, very freely produced well above the foliage, turns from white to brilliant red. Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.75.

**Red Fangs.** One inch slender fruits, which turn directly from green to red, are borne in clusters. Well adapted for Christmas use. *Ball Orig. Seed.* Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.75.

See also Cherries, Christmas, page 16; Love Apple, page 27.

## PETUNIAS

See pages 36-46.

## PENTSTEMON (Beard Tongue)

**ANNUAL** (*P. gloxinoides*) 55,000 S. 2-3 weeks 65-75°

**Sensation Mixture.** 2 ft. Attractive bell-shaped flowers produced on good spikes in an exceptional range of colors. Much used for bedding or in borders. Used as an annual or perennial. Tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.25.

**PERENNIAL** (*Murrayanus grandiflorus*) 15,000 S. 3-5 weeks 65-75°

● **Avalon Mixture.** 3 ft. Spikes of fine, large flowers in an extremely wide and unusual range of colors. Tr. pkt., 40c; 1/8 oz., 80c; 1/4 oz., \$1.50; 1 oz., \$4.50.

## PHLOX

See page 35.

## PHYSALIS

**PERENNIAL** (*P. Alkekengi*) 18,000 S. 3-4 weeks 65-75°

**Francheti** (Chinese Lantern Plant). 2 ft. Giant orange-scarlet pods. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.50.

**Pinks.** See Dianthus, page 21.

## PLATYCODON (Balloon Flower)

**PERENNIAL** (*P. grandiflorum*) 28,000 S. 2-3 weeks 65-75°

Very attractive garden perennial. 2 ft.

**Blue.** A clear deep violet-blue. Pictured in color on page 14. Tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.

## PLUMBAGO

**ANNUAL** (*P. capensis*) 2000 S. 3-4 weeks 65-75°

1 1/2-inch flowers are borne on terminal spikes.

**Blue.** Clear azure-blue. 100 seeds, 90c; 1000 seeds, \$8.00.

## POPPY (Papaver)

**ANNUAL** (*Papaver nudicaule*) S. See below 1-2 weeks 65-75°

**ICELAND.** 275,000 S. 1 ft. The standard type for spring greenhouse forcing. Sow direct either in beds or pots. Quick growing for borders.

**Sanford's Giants.** A fine, brilliantly colored mixture. Tr. pkt., 35c; 1/4 oz., \$1.25; 1 oz., \$3.75.

**SHIRLEY** (*P. rhoeas*). 70,000 S. 2 ft.

**Double Mixture.** Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.25.

**PERENNIAL** (*P. orientale*) 140,000 S. 1-2 weeks 65-75°

**ORIENTAL POPPY.** 3 ft. Large, cup-shaped flowers with crinkled petals. Newly opened flowers when cut in early morning or late evenings will keep in water 3 to 5 days if ends of stems are well burned within 5 minutes of cutting.

**Beauty of Livermere.** Dark oxblood-red.

**Brilliant.** Vivid fiery red.

**Salmon Shades.** Huge blossoms in unusual salmon shades.

**Mixture** of all colors.

**Prices** above 4, each: tr. pkt., 40c; 1/4 oz., \$1.20; 1 oz., \$3.60.





Pansy flowering trials at West Chicago, Phil Jones, Plant Breeding Dept.; Arne Knutsson and John Holden, Seed Dept., in the photo (L. to R.). It is extensive trials such as these that help us select the strains we offer to the florist trade. Tops on the list are our "Four Best" and our "Four Aces Formula Mixture" listed below. For greater profits from Pansies, try some of these better varieties combined with the new self-service containers listed on pages 102-120.

## Profitable Pansies

### ANNUAL (*Viola tricolor*)

20,000 S. 2-3 weeks 65-75°

Remarkable new strains are adding to the popularity of Pansies, which are second only to Petunias among seed-grown bedding items. Be sure to have plenty of plants to meet this demand. There are two basic schedules for growing Pansies for bedding plant sales:

**Mid-winter Sowing** in December or January. After they have germinated carry them along as cool as possible till spring—transplant them into frames in March (Chicago latitude) for May sales. One prominent Illinois grower sows early December, transplants 30 to a "half flat", and

carries them in a cold house 35-40° till March 1. Then he sets them out in frames where they start to bloom early May and are sold for \$1.50 per flat. Where smaller quantities (6 to 12 plants) are wanted, Market-Paks are ideal.

**Summer Sowing** (Early August). This is the accepted time for establishing plants which are spaced about 4x6 in. in frames, given some protection over winter—loose straw, perhaps. Plants should be well established before winter sets in—even budded so that blooms will be available early in the spring to help sell the plants.

### FOUR BEST

- **Ball Giant Mixture.** This is our most popular bedding Pansy mixture. We blend this ourselves, using the best available strains of Swiss Giants, adding separate varieties to insure a good balance of colors. Tr. pkt., 85c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$10.00; 4 ozs., \$36.00.
- **Roggli Giant Elite Mixture.** A choice Swiss bedding strain, predominating in rich red and bronze shades with the typical large, deep blotches. The finest large flowered Pansy. We supply *originator's imported seed only*. Tr. pkt., \$1.50; 1/8 oz., \$3.75; 1/4 oz., \$7.00; 1 oz., \$22.00.
- **Steele's Jumbo Mixture.** We handle the *originator's seed* of this popular American strain. Tr. pkt., \$1.15; 1/8 oz., \$3.40; 1/4 oz., \$6.10; 1/2 oz., \$10.35; 1 oz., \$16.55.
- **Canadian Giants.** This selection from Maple Leaf Giants is extra large flowered. Tr. pkt., \$1.00; 1/8 oz., \$1.85; 1/4 oz., \$3.30; 1 oz., \$11.00.

**America.** An exceptionally free flowering mixture with medium sized blooms. Dwarf and extra early. Tr. pkt., 70c; 1/4 oz., \$2.00; 1 oz., \$6.00.

**AMSTERDAM EARLY GIANTS MIXTURE (NEW).** A free flowering, large-flowered mixture of bright colors. Especially popular along the east coast. Tr. pkt., 85c; 1/4 oz., \$2.50; 1 oz., \$7.50.

### FOUR ACES FORMULA MIXTURE

Recognizing that each of the several Pansy specialist's strains possesses some important advantage, we have formulated this special mixture which, properly handled, has proven to be an ideal Pansy strain. This mixture includes seed of the originator's **Roggli Giants** with their deep, bright shades and compact habit; **Steele's Jumbo** for early blooms; **Canadian Giants** with their exceptional flower size; and **Ball Giant Mixture** to complete a full, well rounded color range.

Grown slowly and cool, the slight variations in habit of growth of these strains will not be found objectionable. Each of your Pansy customers will find his favorite strain in this mixture plus qualities imparted by the other top-notch Pansies. Here is a Pansy mixture that you can promote with complete confidence. Special note: sow thinly and transplant all normal seedlings; otherwise, as in any other mixture, color balance is lost. *A Ball Origination*. Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

- **Ball Dwarf Giants Mixture.** A fine Swiss Giant strain selected for dwarf and compact habit. Tr. pkt., 85c; 1/4 oz., \$2.50; 1 oz., \$7.50.

**Ball Winter Flowering.** Our greatly improved strain of this tall-growing winter greenhouse cut-flower variety. At its best from a late summer sowing—not for bedding. Tr. pkt., 90c; 1/8 oz., \$2.75; 1/4 oz., \$5.00.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.



# Pansies

**Butterfly Mixture.** Ruffled 2½- to 3-inch flowers, including unusual apricot, terra cotta and rosy orchid shades, are freely produced on vigorous plants. *Originator's seed only.*

Tr. pkt., \$1.00; ⅛ oz., \$2.90; ¼ oz., \$5.20; ½ oz., \$9.40.

## ● CLEAR CRYSTALS

A sparkling mixture of red, purple, orange, lilac, yellow, blue and white colors—all without dark blotches. Flowers are slightly ruffled and nearly as large as the Swiss Giants. Excellent for buyers who dislike blotched Pansies. Tr. pkt., \$1.00; ¼ oz., \$2.50; 1 oz., \$7.50.

- **Color Carnival.** A remarkable American produced strain of Swiss Giants. Our trials indicate that it is quite similar to the best imported Roggli strain. Large flowers in a superb mixture of colors.

Tr. pkt., \$1.50; ⅛ oz., \$3.75; ¼ oz., \$7.00; 1 oz., \$22.00.

- **Englemann's Giant Mixture.** A large flowered and brightly colored strain, many being penciled or veined. Fairly compact growth. We offer *originator's seed only.*

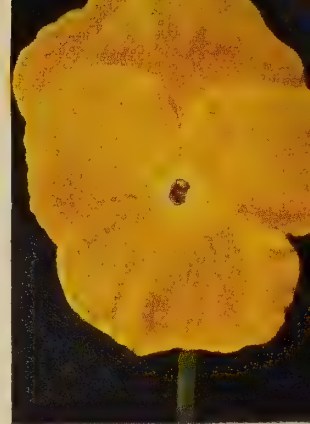
Tr. pkt., \$1.00; ⅛ oz., \$3.30; ¼ oz., \$6.00; 1 oz., \$18.00.

- **Felix.** Well ruffled flowers of good size carried on fairly dwarf plants. Colors are rich and unusual, each flower being marked with dark "whiskers" characteristic of this strain. *Ball Orig. Seed.*

Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.



RASPBERRY ROSE



CORONATION GOLD

**Improved Swiss Giants.** Predominates in rich bronze and red shades. Tr. pkt., 90c; ¼ oz., \$2.75; 1 oz., \$9.00.

**Maple Leaf Giants.** An excellent, extra large flowered strain. Heavy growth with good stems.

Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.

**Oregon Giants.** A complete mixture of long-stemmed, large flowered Giant Ruffled Pansies. *Originator's seed.* 200 seeds, 50c; 600 seeds, \$1.25; ¼ oz., \$4.00; 1 oz., \$12.00.

- **Ruffled Rainbow.** An unusually uniform dwarf mixture characterized by medium large flowers with distinctly ruffled petals and a wide range of colors.

Tr. pkt., \$1.00; ⅛ oz., \$2.75; ¼ oz., \$5.00; 1 oz., \$15.00.

- **Tigress.** "Miniature Pansies". Reds, yellows, orchids and purples in novel striped and blotched arrangements of at least 3 colors create a striking appearance.

Tr. pkt., 60c; ¼ oz., \$1.75; 1 oz., \$5.00.



LAKE OF THUN

## SEPARATE COLORS

**Alpenglow.** Mahogany-red with dark center.

**Berna.** Dark velvety blue.

- **Coronation Gold.** The finest, clear golden yellow.

**Delft Blue.** Porcelain-blue.

**Firebeacon.** Bright, flaming orange with dark center.

**Giant Orange.** Solid light orange.

**Jet Black.** 80% of the flowers are a true black throughout the spring, the purple undertone not becoming apparent until hot weather.

- **Lake of Thun.** Large-flowered blue with darker center.

**Mont Blanc.** Ivory-white with small yellow eye.

- **Raspberry Rose.** Soft pink with contrasting velvety blotch.

**Rhinegold.** Large-flowered yellow with dark center.

- **True Blue.** Solid mid-blue without blotch.

Prices above 12, each: tr. pkt., 70c; ⅛ oz., \$2.00; ¼ oz., \$3.50; 1 oz., \$11.00.

**Pay Dirt.** Large yellow with black lines. *Originator's seed.*

⅙ oz., \$3.35; ⅛ oz., \$6.05; ¼ oz., \$10.90.

- **Paper White.** Pure white with small yellow eye.

**Blue Butterfly.** Blue and white. Improved Lord Beaconsfield.

- **Redskin.** Solid dark red.

Prices above 3, each: tr. pkt., \$1.00; ⅛ oz., \$2.75; ¼ oz., \$5.00; 1 oz., \$15.00.

### Originator's Separate Colors

For flower size, uniformity of color and habit, these Originator-grown Swiss Giant Pansies are the finest separate color Pansies available. All have characteristic dark blotches.

- **Eiger.** Yellow.

**Jungfrau.** White.

- **Hohenfeuer.** Orange.

**Monch.** Golden yellow.

- **Blumlisalp.** Raspberry-rose.

- **Thunersee.** Blue.

- **Alpengluhn.** Mahogany-red.

- **Roggli Giant Elite Mixture.** (See 4 Best, opposite page).

- **Roggli Straight Color Mixture.** Our own mixture of the above Roggli separate colors, blended by formula.

Prices above 9 varieties, each: tr. pkt., \$1.50; ⅛ oz., \$3.75; ¼ oz., \$7.00; 1 oz., \$22.00.



### FOUR ACES FORMULA MIXTURE

A Mixture of Giants!

YOU CAN'T BEAT  
THIS FOR AN  
ALL-PURPOSE  
QUALITY PANSY  
MIXTURE

Includes seed of the originator's Roggli Giants with their deep, bright shades and compact habit; Steele's Jumbo for early blooms; Canadian Giants with their exceptional flower size; and Ball Giant Mixture to complete a full, well rounded color range.





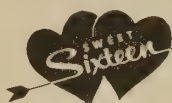


#### PORTULACA DOUBLE MIXED

One of our  
Sweet Sixteen  
varieties for  
1960.

### PORTULACA (Moss Rose)

**ANNUAL** (*P. grandiflora*) 280,000 S. 2-3 weeks 65-75°  
6 in. Very popular and showy bedding plant. While easily grown from seed direct sown in garden, your customers will eagerly buy young plants in bloom.



#### ● DOUBLE MIXTURE

This is an unusually choice and wonderfully showy mixture of brilliant colors. Produces 85 to 90% true double flowers. A special imported strain. Pictured above.

Tr. pkt., 30c; 1/4 oz., \$1.25; 1 oz., \$3.75.

**Single Mixture.** Tr. pkt., 25c; 1/4 oz., 70c; 1 oz., \$2.35.

### PRIMULA MALACOIDES

**ANNUAL** (*P. malacoides*) 385,000 S. 3-4 weeks 65-75°  
Malacoides (Baby) Primulas are of easy culture if they are grown in an airy, cool house (45° night temperature) and not allowed to get dry between waterings. Seed may be sown from May until October for early spring blooming in various pot sizes.

● **Brightness.** This is an F<sub>2</sub> Primula. Flowers are a rich, luminous, deep rose. Brightness is "head and shoulders" above any other variety in uniformity, vigor and profusion of blooms. Tr. pkt., \$1.25.

● **Glory of Riverside Imp.** An excellent variety with freely produced, beautiful salmon-rose flowers.

**White Giant.** Fine pure white; large flowers and heavy stems.

**Brilliancy Imp.** Large flowers of rich wine-red.

**Mrs. Eriksson of Riverside.** Large flowers of glowing rose-red on compact plants of medium height.

**Ball Lavender.** Bright orchid-lavender.

**Mixture.** Our own balanced formula mixture.

Prices above 6, each: tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.25.

● **Red Velvet.** Newly opened flowers are a bright coral-rose changing to deep, velvety crimson-red as they mature.  
Tr. pkt., \$1.50; 1/128 oz., \$2.50.

### OBCONICA

**ANNUAL** (*P. obconica*) 130,000 S. 3-4 weeks 65-75°  
Large flowered and showy pot plants. A favorite for many years. Sow from January on for Christmas and later. The following strains are produced by the world's leading specialists.

● **Fasbender's Red.** An outstanding extra large flowered deep crimson-red.

● **Mueller's Berlin Rose** (Mueller's Rosea). Soft medium rose.

**Salmon-Rose** (Lachsrosa). Salmon-rose shades.

**Sky-Blue** (Coerulea). Clear mid-blue.

**White.** Large, clean flowers.

**Formula Mixture.** Carefully blended from above colors.

Prices above 6, each: tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

### PRIMULA, Continued

#### CHINENSIS (Chinese Primula)

**ANNUAL** (*P. chinensis*) 18,000 S. 3-4 weeks 65-75°

A popular pot plant with many retail growers. Very colorful and showy. Sow from March on for Christmas and later.

**Special mixture.** A choice assortment of colors.

Tr. pkt., \$1.25; 1/32 oz., \$3.75.

#### HARDY VARIETIES

**PERENNIAL** (*P. veris*)

25,000 S. 3-6 weeks 65-75°

6 to 12 in. A very useful class for spring pot work or as garden subjects. Plants lifted from outdoors in fall will make specimen pot plants from February on.

#### VERIS

● **Colossea.** 33,000 S. Extra large flowers (1 1/2 to 2 in.) on long, stiff stems. Remarkable range of unusual colors.

Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

**Giant Munstead Strain.** The standard strain for bedding; in shades of yellow. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

**Polyanthus Mixture** (Unwin's strain).

Tr. pkt., \$1.00; 1/8 oz., \$2.25; 1/4 oz., \$4.25; 1 oz., \$12.50.

**Giant Crimson Giant White Giant Yellow Blue Flowered**

Prices above 4, each: tr. pkt., \$1.00; 1/16 oz., \$1.85; 1/8 oz., \$3.40.

#### PACIFIC GIANTS

The clearer colors, larger flowers, and longer stems of these fine varieties make them a distinct improvement over older strains. For pot plants as well as bedding.

##### RED SHADES (NEW)

##### WHITE SHADES (NEW)

##### YELLOW SHADES (NEW)

##### BLUE SHADES (NEW)

● **Pacific Giants Mixture.** Wide color range.

Prices above 5, each: 1/64 oz., \$4.00; 1/16 oz., \$12.00; 1/4 oz., \$36.00.

#### OTHER SPECIES

##### ● DENTICULATA

Large heads of bell-shaped flowers. Colors vary from white to deep rosy lilac. Tr. pkt., \$1.00; 1/16 oz., \$2.40; 1/4 oz., \$9.00.

● **Giant Monarch Strain** (Auricula). A fine large-flowered bicolored mixture. Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.  
**Japanica.** Crimson, rose and pink flowers borne in whorls on 6- to 9-in. stems. Tr. pkt., 60c; 1/8 oz., \$1.80; 1/2 oz., \$5.40.

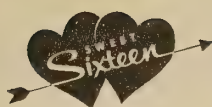


#### BALL CHRISTMAS PEPPER

Compact plants with a profusion of cone-shaped fruit that is first green, later turning purple and then red. *Ball Orig. Seed.* See page 31 for other Peppers.

Tr. pkt., \$1.00; 1/4 oz., \$3.00; 1 oz., \$9.00.





**GLOBE MIXTURE.** The best of the dwarf Phlox types. Many bedding plant growers are now using Globe exclusively for mixed dwarf Phlox. Reason: beautifully rounded superior plant habit.



# Phlox

## ANNUAL (*P. Drummondii*)

14,000 S. 2-3 weeks 65-75°

Annual Phlox are among our most showy bedding items and more popular today than ever before. This is one of the few widely grown native American flowers—was discovered by an Englishman named Drummond in 1835 on the plains of Texas. It stands heat well and rivals Petunias for showiness, having the added advantage of a more dwarf, neat habit (Nana Compacta Global types) than most Petunias.

**GRANDIFLORA.** 15 to 18 in. Fine, free flowering bedding and border material. Also nice for cutting.

**Chamois Rose.** Light creamy pink with white center.

**Coccinea.** Crimson-red.

**Rosea.** Medium rose-pink.

**Violet.** Try this with white or yellow.

**White.** A clear, even white.

Prices above 5, each: tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.50.

### ● Special Mixture of all colors in this tall class.

Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

**Cuspidata Mixture.** (Star of Quedlinburg). A mixture of star-shaped flowers. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$3.00.

**GRANDIFLORA GIGANTEA.** These tetraploids are stronger growers and larger flowered than the regular Grandifloras.

### ● Art Shades Mixture. Mixture of pastel shades; white eyes.

Tr. pkt., 45c; ¼ oz., \$1.10; 1 oz., \$3.30.

**GLAMOUR (NEW).** ALL-AMERICA SELECTION (All-America Winner, 1960). 12 to 15 in. A large and free flowering Phlox. Flowers are a rich salmon color with darker eye.

Tr. pkt., 85c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

## PERENNIAL PHLOX

### PERENNIAL (*P. paniculata*)

2500 S. 3-4 weeks 65-75°

Hardy Phlox should be sown outside in late fall to germinate in spring, or sown and refrigerated for about one month prior to germinating in a 65-75° temperature.

**Beltsville Beauty.** 3 ft. A greatly improved perennial Phlox. Large-flowered, and a wide assortment of colors. Tr. pkt., 85c; ¼ oz., \$2.50; 1 oz., \$7.50.

**Decussata Mixture.** 3 ft. Our strain of this popular perennial Phlox contains many large-flowered, brilliantly colored types. Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.50.

**NANA COMPACTA.** 6 to 8 in. Of dwarf, compact growth, fine for low bedding and border work.



### ● GLOBE MIXTURE

8 in. ALL-AMERICA SELECTION Pictured above. The best of the dwarf Phlox types. Many bedding plant growers are now using Globe exclusively for mixed dwarf Phlox. Reason: beautifully rounded superior plant habit.

Tr. pkt., 50c; ⅛ oz., \$1.50; ¼ oz., \$2.65; 1 oz., \$8.00.

● **Fireball** (Scarlet) **Violet** **Salmon-Rose**  
**Sky-Blue** **Snowball** (White) **Isabellina** (Buff-yellow)

● **Beauty Mixture** (Sutton's). A compact and very free flowering strain with large blooms. Excellent for pot plants, combinations or bedding. Prices above 7, each: tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

● **Ideal Bedding Mixture.** 6 to 8 in. This florist strain is exceptionally uniform in its dwarf habit. An unusually bright mixture well adapted for pot and combination work or for borders.

Tr. pkt., 75c; ¼ oz., \$2.00; ½ oz., \$3.50; 1 oz., \$6.00.

### ● TWINKLE

ALL-AMERICA SELECTION Pictured below. 7 in. Dainty flowers of the Cuspidata or starred type, with pointed petals, are lavishly produced on dwarf, compact plants. An unusually wide assortment of colors, both solid and bicolor, are included in this blend. Blooms very early in Paks or flats and continues well into the summer.

Tr. pkt., 75c; ⅛ oz., \$1.30; ¼ oz., \$2.35; 1 oz., \$7.00.







**PINK MAGIC**  
The GLAMOUR Petunia—an outstanding bright pink.

- **PINK MAGIC.** Early and free flowering, smooth bright pink. Unexcelled for pots, combinations or bedding. In just 3 years, Pink Magic has become one of the most popular of all Petunias. Ask your fellow growers what they think of it. *Ball Orig. Seed.* Pictured above.
- **BLUE MAGIC.** May be described as an F1 Hybrid Admiral with Admiral blue flowers up to 3 inches across. Growth habit is compact and vigorous and it is easier to grow than Admiral. Pictured below.

**BLUE MAGIC (Below)**  
Finest blue Grandiflora.



# The Finest Petunias of All . . . **BALL'S Sweet**

## Popular? and How!

Grower after grower reports that Petunias comprise from one-third to one-half of his entire bedding plant production—nearly as much as all other species combined.

Mr. Charles Weddle, originator of many of the modern F1 Hybrid Petunias, puts it this way, "The job of the Petunia is to create masses of color." That they do this well is attested by their growing popularity.

What's the reason for this overwhelming popularity? Customer satisfaction—home gardeners really like them. They're easy to grow, they don't have to be coddled, and they give a real show for the money.

## Why Sweet Sixteen?

Each year the list of Petunias becomes larger and more complex. Breeders are constantly offering new colors, new types, and improvements over present varieties. This

(Continued on opposite page).



- **WHITE MAGIC.** Earliness, large ruffled Grandiflora blooms of pure white, heavy production of flowers, and dwarf habit of growth are shared in this remarkable Petunia. Ideal, either in pots or for bedding. Pictured below.

**Prices** for the "Magic" Petunias listed on this page, each:  
 $\frac{1}{2}$  tr. pkt., \$1.35; tr. pkt., \$2.50;  $\frac{1}{128}$  oz., \$4.50;  
 $\frac{1}{64}$  oz., \$8.00;  $\frac{1}{32}$  oz., \$15.50;  $\frac{1}{16}$  oz., \$30.00;  
 $\frac{1}{8}$  oz., \$57.00;  $\frac{1}{4}$  oz., \$108.00.

**WHITE MAGIC (Below)**

The very best white—early and free-flowering.





# Sixteen for '60!

Continued from opposite page.

is good, but it presents a never-ending problem of selection to keep up with progress without unduly increasing the number of varieties grown.

Our list of Sweet Sixteen Petunias was conceived as an answer to this problem of selection. Each variety has been selected on the basis of thorough trialing at our West Chicago and Santa Paula (California) plants, reports from our salesmen, and from growers across the country. The list is balanced for color, habit and type, to give you a variety to satisfy every customer.

## Grow Sweet Sixteen Selections in '60

The Sweet Sixteen Petunias are included in our Sweet Sixteen Kit featured on pages 2 and 3, and will be advertised nationally in garden magazines. Take advantage of this extra sales boost—Grow Sweet Sixteen Selections in '60.



- **TANGO.** A bushy plant with luxurious deep green foliage against which the large, bright salmon-scarlet flowers literally stand out like flares. Flowers are moderately fringed and ruffled, and are freely produced. Makes a fine pot plant, is equally good for bedding. Pictured below.

**Prices** of the 3 Petunias on this page, each: 1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; 1/4 oz., \$108.00.

**TANGO (Below)**  
Most popular large-flowered salmon-scarlet.



**MAYTIME**  
A beautiful soft salmon.

- **MAYTIME.** ALL-AMERICA SELECTION (All-America Winner for 1958). Pictured above. This excellent F<sub>1</sub> Hybrid covers itself with large, ruffled Grandiflora type flowers of a soft salmon-pink shade. Blooms are freely produced on dense, vigorous plants.
- **CRUSADER.** Gaily striped, extra bright rose-pink on pure white with nicely fringed petals. Weather conditions and light intensity will sometimes affect the proportion of coloring in this, or any variegated Petunia. Pictured below.

All the varieties on these two pages are F<sub>1</sub> Hybrid Grandifloras. See next page for additional Sweet Sixteen Petunias.

**CRUSADER (Below)**  
Gaily striped—extra free flowering.







**CHIFFON**  
Light pink—very free flowering.



**SUGAR PLUM**  
An outstanding novelty. Very free flowering.



# Sweet Sixteen Petunias

All Varieties are F<sub>1</sub> Hybrid Grandifloras (except where noted)

- **BINGO** (Inbred). Huge flowers, up to 5 inches across, richly variegated wine-red and white. About half of the plants are somewhat small flowered (3 inches), but they are equally colorful. An excellent item for combination boxes or bedding. Pictured below. ½ tr. pkt., 85c; tr. pkt., \$1.50; 1/64 oz., \$4.50; 1/32 oz., \$8.00; 1/16 oz., \$14.00; 1/8 oz., \$25.00; ¼ oz., \$45.00.

**BINGO**  
Extra large flowered and very colorful.



- **SUGAR PLUM**. Small flowers of bright orchid with deeper wine-red veins are freely produced on dwarf, compact plants. Made an excellent show in our trials last summer. An outstanding novelty. Pictured above. ½ tr. pkt., \$1.00; tr. pkt., \$1.75; 1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$11.70; 1/16 oz., \$20.00; 1/8 oz., \$35.00; ¼ oz., \$60.00.
- **CHIFFON**. This Petunia (pictured above) is almost identical to Pink Magic and possesses all its good qualities, but has flowers of a smooth, clear light pink color that varies slightly in intensity. *Ball Orig. Seed.*

- **MATADOR**. Medium large, ruffled, Grandiflora blooms of the popular mahogany-red King Henry or Velvet Ball color. Makes a rich bedding show planted with white. *Ball Orig. Seed.*

Prices above 2, each: ½ tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; ¼ oz., \$108.00.

- **BALL ALL-DOUBLE MIXTURE**. Pictured on page 40. Our top-quality, all-purpose double mixture, containing liberal portions of the most popular straight colors, blended by formula. Varieties contained in this mixture are selected for uniformity of height and blooming date. All important double Petunia colors are represented in this strain. **Our finest double mixture.** ½ tr. pkt., \$2.50; tr. pkt., \$4.00; 1/128 oz., \$7.60; 1/64 oz., \$14.45; 1/32 oz., \$28.00; 1/16 oz., \$55.00.

## SWEET SIXTEEN PETUNIA COLLECTION

**COLLECTION A.** Tr. pkt. each of the Sweet Sixteen Petunias listed on these four pages (catalog price \$36.75) for **\$33.00.**



# Sweet 16 Petunias



## F<sub>1</sub> HYBRID MULTIFLORAS

- **PINK VELVET.** A beautiful, clear rose-pink. Identical in color and flower size to the popular Celestial Rose Imp., but more uniform in habit, color, and freedom of bloom. We think you'll agree that this is one of the best Hybrid Multifloras you've seen. *Ball Orig. Seed.* Pictured at right.
- **WHITE VELVET.** A clear white Multiflora with a definite silvery sheen. Uniform habit of growth and very free flowering. May show advantages over Paleface under certain growing conditions. *Ball Orig. Seed.* Pictured at right.
- **COMANCHE IMPROVED.** This brilliant scarlet-red Hybrid Multiflora has become one of the most popular Petunias of all time. Ours is an improved strain from reselected parents and has performed outstandingly in our trials. Pictured below.
- **SATELLITE.** Bright rose with a perfect white star. Far more brilliant than the old inbred variety, Twinkles, and very free flowering. Pictured on page 42.

**Prices** above 4 varieties, each: 1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/28 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$11.70; 1/16 oz., \$20.00; 1/8 oz., \$35.00; 1/4 oz., \$60.00.

- **GLITTERS.** ALL-AMERICA SELECTION Pictured below. This fiery combination of bright scarlet-crimson and white draws plenty of attention wherever grown. Truly brilliant, and a "must" for bedding plant growers everywhere. 1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; 1/4 oz., \$108.00.

### COMANCHE

We are now offering an improved strain of this outstanding red.



### PINK VELVET

One of the new "Velvet Series" produced by our plant breeders.



### WHITE VELVET

Best for mass display of white.

### GLITTERS (Below)

Don't miss out on this fine bicolored Multiflora.





# Glamorous FOR BEDDING

ALL VARIETIES LISTED  
ON THESE TWO PAGES  
ARE **HYBRID**  
PETUNIAS



Diagram identifying separate varieties in photo at left.



## ● BALL ALL-DOUBLE MIXTURE

Our top quality, all-purpose double mixture, containing liberal portions of the most popular straight colors blended by formula. Varieties contained in this mixture are selected for uniformity of height and blooming date. All important double Petunia colors are represented in this strain.

**Our finest double mixture.** ½ tr. pkt., \$2.50; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.

## CANADIAN STRAINS

### MIXTURES

- **Canadian Mixture, Improved.** Basically improved by the addition of more fine rose, pink and salmon shades. ½ tr. pkt., \$2.50; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.

**Colossal Shades of Rose Imp.** The largest flowered All-Double Petunia. Shades of pink and salmon-rose. ½ tr. pkt., \$2.50; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.

### SEPARATE COLORS

- America.** Medium sized bright rose flowers very freely produced on a medium tall plant. If pinched once will produce a very nice pot plant. ½ tr. pkt., \$1.35; tr. pkt., \$2.50; ¼<sub>128</sub> oz., \$4.50; ¼<sub>64</sub> oz., \$8.00; ½<sub>32</sub> oz., \$14.50; ¼<sub>16</sub> oz., \$28.00; ½<sub>8</sub> oz., \$55.00.
- **Blue Moon.** The most uniformly dwarf and free flowering dark blue double Petunia thus far. Medium sized, fully double blooms on uniform, well shaped plants. ½ tr. pkt., \$2.50; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.
- **Canadian Queen.** Pictured in arrangement, above. A very fine, true pink double, somewhat lighter than Rose of Canada. The large, well ruffled flowers are carried nicely above the compact, bushy plants. A first class, all-around double Petunia. ½ tr. pkt., \$2.50; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.

- **Cotton Candy.** (Pictured at right). An appealing soft creamy salmon suffused with pink, reminiscent of the childhood treat from which it derives its name. Extra large, fully double flowers borne in abundance on vigorous but dense plants. Fine for pots or bedding.

**Black Prince.** A bright burgundy-wine color. Flowers are only medium in size, but freely produced.

**Northern Lights.** Shades of medium deep rose with some bicolored types. Typical fine Canadian habit of growth.

- **Purple and White.** Large completely double flowers of richly variegated wine-purple and white. A striking color combination.

**Rose of Canada.** Fully double, bright medium rose flowers about 3 inches across are freely produced on compact, bushy plants.

**Salmon Red.** The nearest approach to a true scarlet-red double; more nearly red than Allegro. Very showy.

Prices above 6, each: ½ tr. pkt., \$2.50; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.

- **Burpee Orchid** (Not a Canadian variety). Improves Minuet mainly in its somewhat warmer, rose-lavender shade. Should be pinched for best plant habit. ½ tr. pkt., \$2.75; tr. pkt., \$4.50; ¼<sub>128</sub> oz., \$8.50; ¼<sub>64</sub> oz., \$16.00.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.



# Double Petunias

## POTS, OR COMBINATIONS

ANNUAL (*P. hybrida*)

*All Petunia seed averages about 285,000 per ounce 1-2 weeks 65-75°*

Double Petunias are among your most valuable spring plants.

- Hundreds of thousands are grown in "Paks" and flats for bedding plant sales. Growers find that six plants in a Market-Pak No. 42 and twelve plants in a Market-Pak No. 60 both make quality units for ready sales.
- Doubles in 2¼-in. and 3-in. pots for bedding continue to be popular. Jiffy-Pots give superior quality plants and bring satisfied customers back for more. Having the first flower open also helps your sales.
- In 3- and 4-inch pots, double Petunias provide the backbone for May combinations.
- Heavy, flowering doubles in 3-, 4- and 5-inch pots are in good demand for Mother's Day.
- For budget sales in March and April, blooming plants in 3-inch pots have met excellent response.

We offer the finest strains of Double Petunias obtainable. Our recommendations are based on complete trials, both in 3-inch pots for spring blooming in our greenhouse, and in our field trials for summer performance. We invite you to inspect these trials.



CAPRICE

## PAN-AMERICAN STRAINS

### ● ALLEGRO

Medium to large, fully double flowers of clear, bright salmon are carried on fairly dwarf plants. An attractive color in the All-Doubles and the finest in its color class.

½ tr. pkt., \$2.75; tr. pkt., \$4.50; ¼<sub>128</sub> oz., \$8.50; ¼<sub>64</sub> oz., \$16.00; ½<sub>32</sub> oz., \$29.50; ¼<sub>16</sub> oz., \$58.00.

- **Caprice** (Pictured above, right). Medium sized rose-pink flowers are carried on fairly dwarf plants. One of the best rose doubles available.

**Presto.** Large, fully double flowers of rich, bright rose and pure white. An unusually attractive variegated double Petunia.

- **Sonata.** (Pictured in arrangement on opposite page). Extra large, fully double, pure white flowers. Should be pinched to encourage best plant habit.

**Minuet** (Pictured in arrangement on opposite page). Medium sized lavender. Tall; should be pinched.

**Nocturne.** Elk's Pride purple, medium large flowers are borne on vigorous, but compact plants.

**Prices** last 5, each: ½ tr. pkt., \$2.75; tr. pkt., \$4.50; ¼<sub>128</sub> oz., \$8.50; ¼<sub>64</sub> oz., \$16.00; ½<sub>32</sub> oz., \$29.50; ¼<sub>16</sub> oz., \$58.00.

**Glorious Mixture.** Contains all Pan-American colors. In transplanting, be sure to use both large and small seedlings, thus insuring a complete range of colors.

½ tr. pkt., \$2.25; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$7.60; ¼<sub>64</sub> oz., \$14.45; ½<sub>32</sub> oz., \$28.00; ¼<sub>16</sub> oz., \$55.00.

## JAPANESE STRAINS

- **Gaiety.** (Pictured in arrangement on opposite page). The blotched or variegated flowers combine bright rose-pink with contrasting pure white. Medium large blooms carried on dwarf, base-branching plants.

- **Attraction.** Striking, brightly colored rose and white mottled; deeper than Gaiety. Medium habit.

- **Pink Perfection** (World Beauty). Deep rose color and uniformly dwarf growth.

**White Swan** (Snowball Imp.) Large-flowered, pure white double.

**Blue Monarch** (An improved Blue Brocade). Purple. Prefer Nocturne.

**Sunset Giant.** A bright salmon-scarlet double of Japanese origin. Quite similar, in our trials, to Allegro, but may show slight differences elsewhere.

**Victorious Mixture.** We blend this mixture ourselves from the above Japanese varieties.

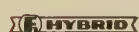
**Prices** above 7, each: ½ tr. pkt., \$2.25; tr. pkt., \$4.00; ¼<sub>128</sub> oz., \$6.50; ¼<sub>64</sub> oz., \$12.00; ½<sub>32</sub> oz., \$22.00; ¼<sub>16</sub> oz., \$40.00.



COTTON CANDY

### CULTURAL SUGGESTIONS

Doubles must be sown earlier than ordinary Petunias to sell at the same time. For "paks" or flats sow from 12 to 15 weeks before sale, depending on what your market demands. We recommend (Chicago, 50°) January 1 sowing for strong 3-inch the latter part of May. For May combinations, heavy 3-inch should be sown December 15—no later. For 4- or 5-inch for April and May potted plant sales or 3-inch for March, a well shaped plant with several blooms needs a November 15 sowing. Doubles, like other Petunias, need good drainage, and cool temperatures—they will lose their dwarf habit of growth if temperatures are run above 55° (unless there is an abundance of sunshine to offset this). Certain varieties need one pinch to retain suitable shape for finished plants. They all break very readily. Sonata, Snowball and Minuet are especially responsive to a pinch.



indicates genuine 1st generation hybrid.





#### SATELLITE

New on our "Sweet Sixteen" list, Satellite is a bright rose with a perfect white star. Very free flowering.

### "SATIN" PETUNIAS

#### ● RED SATIN

Bright red, similar to Comanche except plants are slightly more dwarf and compact.  $\frac{1}{2}$  tr. pkt., \$1.25; tr. pkt., \$2.25;  $\frac{1}{128}$  oz., \$4.00;  $\frac{1}{64}$  oz., \$7.50;  $\frac{1}{32}$  oz., \$14.50;  $\frac{1}{16}$  oz., \$26.00;  $\frac{1}{8}$  oz., \$46.00;  $\frac{1}{4}$  oz., \$82.00.

**Peach Satin.** Warm salmon-pink; large flowered and somewhat taller than Red Satin.

**Pink Satin.** Brilliant rose-pink. Globe-shaped plants are slightly taller than Red Satin.

### OTHER MULTIFLORAS

#### ● BLUE RIBBON

A clear, violet-blue Multiflora Petunia identical in color to Blue Lustre. Very free flowering.  $\frac{1}{2}$  tr. pkt., \$1.25; tr. pkt., \$2.25;  $\frac{1}{128}$  oz., \$4.00;  $\frac{1}{64}$  oz., \$7.50;  $\frac{1}{32}$  oz., \$14.50;  $\frac{1}{16}$  oz., \$26.00;  $\frac{1}{8}$  oz., \$46.00;  $\frac{1}{4}$  oz., \$82.00.

● **Apache.** An intense deep cerise-rose similar in color to Inca, but without the gold throat.

● **Aztec.** Bright scarlet-red with contrasting gold throat. A smaller version of Fire Dance, but more vigorous and free flowering.

● **Comanche Improved.** See Sweet Sixteen Petunias, page 39.

**Brilliancy.** Quite similar to Apache in its deep cerise-rose coloring but taller and more vigorous in growth.

**COMET (NEW).** Bright crimson-red with sharply defined white star. Habit dwarf and compact.

● **Glitters.** See Sweet Sixteen Petunias, page 39.

● **Inca.** Bright deep cerise-rose with a golden throat.

#### ● LINDA

Brilliant rosy salmon flowers, similar to Silver Medal, are carried on bushy, solid plants of great vigor. Will withstand heavy wind and rain without plants breaking down. Somewhat more dwarf than Silver Medal.

**MARS (NEW).** Velvety blood-red. The popular King Henry or Velvet Ball color in F<sub>1</sub> Hybrid Multiflora form.

**NEPTUNE (NEW).** A medium violet-blue, near indigo in color. Dwarf in habit, and free flowering.

**Paleface.** Pure white flowers with small creamy eye. This vigorous and free-flowering variety is one of the best. Widely grown everywhere.

**Pink Beauty.** A slightly deeper and clearer shade than Pink Sensation, and more dwarf in growth.

● **Pink Sensation.** One of the most vigorous, free flowering, fastest growing Petunias we have ever seen. Light silvery pink.

● **Rose Charm.** Rich, brilliant rose. Wonderfully vigorous, free branching and flowering.

**Prices** all above varieties (except Glitters, Blue Ribbon and Red Satin):  $\frac{1}{2}$  tr. pkt., \$1.00; tr. pkt., \$1.75;  $\frac{1}{128}$  oz., \$3.50;  $\frac{1}{64}$  oz., \$6.50;  $\frac{1}{32}$  oz., \$11.70;  $\frac{1}{16}$  oz., \$20.00;  $\frac{1}{8}$  oz., \$35.00;  $\frac{1}{4}$  oz., \$60.00.

## **F HYBRID** Multifloras **F HYBRID**

### BALL "VELVET" VARIETIES

● **Pink Velvet.** See Sweet Sixteen Petunias, page 39.

● **White Velvet.** See Sweet Sixteen Petunias, page 39.



**Blue Velvet.** Bright mid-blue flowers freely produced on plants of medium height. This is not the violet-blue color usually associated with Petunias.

**Red Velvet.** Our own F<sub>1</sub> Hybrid Multiflora scarlet-red. Similar to Comanche, but may show slight differences under some growing conditions.

**Salmon Velvet.** A medium deep salmon between Linda and Sioux in color. Flowers are lavishly produced on uniform, vigorous plants.

**Prices** above 5, each:  $\frac{1}{2}$  tr. pkt., \$1.00; tr. pkt., \$1.75;  $\frac{1}{128}$  oz., \$3.50;  $\frac{1}{64}$  oz., \$6.50;  $\frac{1}{32}$  oz., \$11.70;  $\frac{1}{16}$  oz., \$20.00;  $\frac{1}{8}$  oz., \$35.00;  $\frac{1}{4}$  oz., \$60.00.

**VELVET COLLECTION:** One tr. pkt. each of the above five "Velvet" varieties. 5 pkts. (collection), \$7.85.

● **SATELLITE (NEW).** See Sweet Sixteen Petunias, page 39.

● **Silver Medal.** Medium large flowers of soft salmon-pink are lavishly produced on free-branching plants. Here is an ideal shade for the trade which likes soft pastel colors.

● **Sioux.** A deep, intense salmon shading toward red at throat. Midway between Linda and Comanche in color. Very vigorous and blooms profusely.

● **Starflight.** The white-starred, deep crimson-purple of the popular Elk's Star in Hybrid form. Vigorous, free flowering and very showy.

● **Sugar Plum.** See Sweet Sixteen Petunias, page 38.

**VENUS (NEW).** Bright rose-pink. Habit of growth is dwarf, compact, and spreading.

**Yellow Gleam.** Freely produced flowers of a medium yellow color paling to ivory-yellow in hot weather. The nearest approach to a true yellow in Petunias.

**F HYBRID** **Wonderland (Multiflora) Mixture.** Our own formula mixture of the F<sub>1</sub> Hybrid Multifloras blended to provide a well balanced mixture of colors.

**F HYBRID** **MULTIFLORA COLLECTION.** One tr. pkt. each of Paleface, Blue Ribbon, Red Satin, Glitters, Linda, and Rose Charm (catalog value, \$12.25) for \$11.00.

**Prices** all above varieties (except Glitters, Blue Ribbon and Red Satin):  $\frac{1}{2}$  tr. pkt., \$1.00; tr. pkt., \$1.75;  $\frac{1}{128}$  oz., \$3.50;  $\frac{1}{64}$  oz., \$6.50;  $\frac{1}{32}$  oz., \$11.70;  $\frac{1}{16}$  oz., \$20.00;  $\frac{1}{8}$  oz., \$35.00;  $\frac{1}{4}$  oz., \$60.00.



#### BLUE RIBBON

Finest blue Multiflora on the market.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.





**HOLIDAY**

## BLUE and PURPLE

- **Blue Lustre.** (Pictured at right below). One of the finest clear violet-blue Petunias thus far. The medium large ruffled Grandiflora blooms are produced more freely than most blue Petunias, while the plant habit is uniform and bushy.  
1/2 tr. pkt., \$1.75; tr. pkt., \$3.00; 1/128 oz., \$5.50; 1/64 oz., \$10.00; 1/32 oz., \$19.00; 1/16 oz., \$36.00; 1/8 oz., \$69.00; 1/4 oz., \$129.00

- **Blue Magic.** See Sweet Sixteen Petunias, page 36.

**BLUE LACE (NEW).** Medium sized, well fringed flowers of light orchid-blue with deeper veins. Good growth habit.

**Lavender Lace.** Heavily fringed Grandiflora type flowers of warm lavender-rose with deeper heliotrope veins.

**Prices** above 3 varieties, each: 1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; 1/4 oz., \$108.00.

**Blue Mantle.** Medium sized, ruffled flowers of rich violet-blue. Fairly dwarf, but erect plant with blooms well displayed.  
1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$12.00; 1/16 oz., \$20.00; 1/8 oz., \$36.00; 1/4 oz., \$65.00.

**Modesty.** Large, nicely fringed flowers of light lavender-blue.  
1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$12.00; 1/16 oz., \$20.00; 1/8 oz., \$36.00; 1/4 oz., \$65.00.

## SALMON

### ● BALLERINA

**ALL-AMERICA SELECTION** (Pictured on page 44). Extra large, frilled flowers of clear, intense salmon that hold their color well under summer sun. Plants are vigorous and uniform.

- **Maytime.** See Sweet Sixteen Petunias, page 37.

**Prices** above 3 varieties, each: 1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; 1/4 oz., \$108.00.

- **Fairyland.** Medium large fringed and ruffled flowers of a soft shrimp-salmon shade; lighter than Ballerina. Vigorous and free blooming.  
1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$12.00; 1/16 oz., \$20.00; 1/8 oz., \$36.00; 1/4 oz., \$65.00.

## PINK and ROSE

- **Chiffon.** See Sweet Sixteen Petunias, page 38.
- **Prima Donna.** **ALL-AMERICA SELECTION** Large, heavily ruffled bright rose flowers with darker veins on vigorous, spreading, base-branching plants. Quite similar to the popular Ballerina except for color.
- **Jumbo Rose.** Large flowered, ruffled deep rose. This is a fine Petunia for pots and combinations, as well as for bedding. *Ball Orig. Seed.*
- **Pink Magic.** See Sweet Sixteen Petunias, page 36.
- **HOLIDAY (NEW—A Ball Origination)**

Pictured at left. Medium large flowers of brilliant, intense rose; several shades darker than Pink Magic. Blooms are very freely produced and carried well above the foliage on compact but vigorous plants. Makes an excellent bedding show.

**Prices** above 5 varieties, each: 1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; 1/4 oz., \$108.00.

**Flirt.** Medium sized, clear light pink flowers are freely produced on vigorous, but fairly compact plants. 1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$12.00; 1/16 oz., \$20.00; 1/8 oz., \$36.00; 1/4 oz., \$65.00.

**ROSE LUSTRE (NEW).** A bright rose-pink Grandiflora Petunia, similar in habit and flower size to the popular Blue Lustre and Scarlet Lustre. Reports from trials distributed this past season have been most flattering.  
1/2 tr. pkt., \$1.75; tr. pkt., \$3.00; 1/128 oz., \$5.50; 1/64 oz., \$10.00; 1/32 oz., \$19.00; 1/16 oz., \$36.00; 1/8 oz., \$69.00; 1/4 oz., \$129.00.

## BICOLORS

**Carioca.** Large, beautifully fringed flowers, mottled and striped with rich wine-red and white, are prominently displayed on dense mounded plants. *Ball Orig. Seed.*

- **Crusader.** See Sweet Sixteen Petunias, page 37.

**Sabre Dance.** Extra large, ruffled flowers variegated bright crimson and white. Most flowers exhibit a white star pattern. Habit is compact but vigorous.

**Prices** above 3 varieties, each: 1/2 tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; 1/8 oz., \$57.00; 1/4 oz., \$108.00.

**Minstrel.** Large, ruffled flowers in various combinations of white and rich violet-blue. 1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/128 oz., \$3.50; 1/64 oz., \$6.50; 1/32 oz., \$12.00; 1/16 oz., \$20.00; 1/8 oz., \$36.00; 1/4 oz., \$65.00.



**BLUE LUSTRE**  
Delicately ruffled violet-blue.



# F<sub>1</sub> Hybrid Grandifloras—Continued



**BALLERINA**  
Large flowered, bright salmon color Grandiflora.

## HYBRID GRANDIFLORA COLLECTION

One tr. pkt. each of Pink Magic, White Magic, Blue Magic, Tango, Ballerina and Crusader (catalog value \$15.00) for \$13.50.

## WHITE

**Snow Lady.** A medium large, fringed and ruffled white somewhat similar to La Paloma. ½ tr. pkt., \$1.00; tr. pkt., \$1.75; ¼ oz., \$3.50; ½ oz., \$6.50; ¼ oz., \$12.00; ¼ oz., \$20.00; ¼ oz., \$36.00; ¼ oz., \$65.00.

● **La Paloma.** Large, well fringed flowers of purest white with yellow throat and remarkable vigor are the outstanding points about this fine Hybrid Petunia.

● **White Magic.** See Sweet Sixteen Petunias, page 36.

## RED

● **Fire Gleam.** Medium sized, ruffled flowers of brilliant cherry-red—a color that almost seems to glow as if lighted. ½ tr. pkt., \$1.00; tr. pkt., \$1.75; ¼ oz., \$3.50; ½ oz., \$6.50; ¼ oz., \$12.00; ¼ oz., \$20.00; ¼ oz., \$36.00; ¼ oz., \$65.00.

**Scarlet Lustre.** Large ruffled and fringed flowers of the same scarlet-red throat color as Fire Dance, but a stronger grower and more disease resistant.

½ tr. pkt., \$1.75; tr. pkt., \$3.00; ¼ oz., \$5.50; ¼ oz., \$10.00; ¼ oz., \$19.00; ¼ oz., \$36.00; ¼ oz., \$69.00; ¼ oz., \$129.00.

● **Tango.** See Sweet Sixteen Petunias, page 37.

**Fire Dance.** ALL-AMERICA SELECTION This can best be described as a Tango-red with a rich golden throat. Fire Dance is a large fringed Grandiflora.

● **Matador.** See Sweet Sixteen Petunias, page 38.

**Toreador.** Large, slightly ruffled flowers of solid, deep, velvety crimson-red are carried on uniform, compact plants.

**Prices** all above varieties (except where noted): ½ tr. pkt., \$1.35; tr. pkt., \$2.50; 1/128 oz., \$4.50; 1/64 oz., \$8.00; 1/32 oz., \$15.50; 1/16 oz., \$30.00; ¼ oz., \$57.00; ¼ oz., \$108.00.

## HYBRID GRAND BALL MIXTURE

This is a carefully blended formula mixture of F<sub>1</sub> Hybrid Grandiflora Petunias which we make up ourselves. Contains both fringed and ruffled types.

½ tr. pkt., \$1.35; tr. pkt., \$2.50; ¼ oz., \$4.50; ¼ oz., \$8.00; ¼ oz., \$15.50; ¼ oz., \$30.00; ¼ oz., \$57.00; ¼ oz., \$108.00.

# Other Grandifloras

## RUFFLED VARIETIES

### Large-Flowered Petunias

There are 3 distinct classes of grandifloras: the Ruffled, the Fringed and the Dwarf. Like all Inbred Petunias, the most vigorous are the tall ones. The Dwarf Grandifloras make ideal pot plants, but for bedding use the F<sub>1</sub> Hybrids are generally more satisfactory.

● **Bingo.** See Sweet Sixteen Petunias, page 38.

½ tr. pkt., 85c; tr. pkt., \$1.50; ¼ oz., \$4.50; ½ oz., \$8.00; ¼ oz., \$14.00; ¼ oz., \$25.00; ¼ oz., \$45.00.

**Carnival.** A colorful F<sub>2</sub> mixture containing all shades found in the Grandiflora type. F<sub>2</sub> Petunia seed is saved from specially bred and selected F<sub>1</sub> Hybrid varieties.

Tr. pkt., \$1.50; ¼ oz., \$3.85; ¼ oz., \$7.00; ¼ oz., \$21.00; ¼ oz., \$63.00.

## ● POPCORN

### A Super-Dwarf Grandiflora White.

If you like Snowstorm or White Queen for flower size, but find it a bit tall for certain uses, here is the answer—a really dwarf, large flowered white. Makes a wonderful plant for pots or combinations, and is equally at home for bedding.

Tr. pkt., \$1.50; ¼ oz., \$2.75; ¼ oz., \$5.00; ¼ oz., \$9.50; ¼ oz., \$18.00; ¼ oz., \$33.00.

**Dwarf Pink Glory.** Glowing carmine-rose with white throat.

● **Elk's Pride Dwarf.** Our strain of this always popular, rich velvety purple is admirably suited for bedding. Uniform.

**Giant Flaming Velvet.** Fine ruffled, velvety mahogany-red.

**Purple Prince.** Same as Elk's Pride Dwarf.

**Royalty.** Large ruffled flowers in combinations of purple and white.

● **Snowstorm.** Fine, large flowered white.

**Summer Night.** Elk's Pride color but much more bushy and compact. Blooms later than most Petunias.

**White Cloud.** We offer the originator's strain.

● **White Queen.** Extra large, wavy, pure white flowers and vigorous growth make this a truly outstanding Petunia.

● **Ruffled Grandiflora Mixture.** A well balanced formula mixture of the above varieties.

**Prices** above 10, each: tr. pkt., 85c; ¼ oz., \$1.90; ¼ oz., \$3.40; ¼ oz., \$5.75; ¼ oz., \$11.00; ¼ oz., \$20.00.



**POPCORN**



# Other Grandifloras-Continued

## DWARF VARIETIES

The following Petunia varieties seem admirably adapted to pot plant growth, but are not so universally useful for outdoor planting. So we have taken the liberty of listing them separately to indicate a special adaptability to growth in pots in the greenhouse in spring. Many of the Petunias listed on the preceding pages also make ideal pot plants. Check variety description for our recommendations.

- **Carosel.** Small, daintily fringed, but lavishly produced flowers of wine-purple and white, are borne on compact, shapely plants.  
1/2 tr. pkt., 85c; tr. pkt., \$1.50; 1/4 oz., \$3.50; 1/32 oz., \$6.00.
- **Lace Veil.** Fringed, pure white flowers. Our stock of Lace Veil is quite uniform and free flowering.  
Tr. pkt., 85c; 1/4 oz., \$2.00; 1/32 oz., \$3.50.
- **Little Giants Mixture.** Small, ruffled, California Giant type flowers are freely produced on low growing, uniform plants. Ideal for pots and combination work as well as bedding. Colors range from crimson-red through rose and pink to white.  
Tr. pkt., 75c; 1/4 oz., \$1.50; 1/32 oz., \$2.75; 1/16 oz., \$5.00.
- **Robin.** Bred especially for use in pots or for combinations, but equally at home as a border plant. Plants are dwarf and compact, carrying their medium sized, ruffled flowers of rich, bright rose with white throats well above the foliage. *Ball Orig. Seed.*  
1/2 tr. pkt., 85c; tr. pkt., \$1.50; 1/4 oz., \$3.50; 1/32 oz., \$6.00.

## CALIFORNIA GIANTS

While none of the California Giants are F<sub>1</sub> Hybrids, they continue to maintain their popularity to the fullest extent. Although these Petunias, and especially the Dwarf Giants, admittedly don't have the vigor of Hybrids, it's apparent that gardeners and gift buyers never seem to tire of the huge ruffled blooms with their exotic colors.

For pot plants Ball Dwarf Giant No. 1 is the variety. It's the most dwarf and earliest blooming California Giant. For a different color range, on somewhat taller plants, use Ball Dwarf Giant No. 2. Other strains listed below supply various single and blended colors. Sow December 15 for heavy 3-inch plants for Mother's Day, and January 10 to produce blooming 3-inch for late May bedding sales.

### ● BALL DWARF GIANT No. 1

About 90% very large flowers, in orchid, rose and red shades, and bicolors. Throws its first flower very early—easy to flower in pots or "paks" for bedding. Has the most dwarf, compact growth of all California Giants. Flowers are larger than other varieties in this class, with delicately netted throats and heavily ruffled petals. This is the finest Giant Petunia for spring pots, and for bedding sales. We maintain the high standard by yearly trial and selection.

1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/4 oz., \$2.75; 1/32 oz., \$5.00; 1/16 oz., \$9.50; 1/8 oz., \$18.00; 1/4 oz., \$34.00.

**Separate Colors of Ball Dwarf Giant No. 1.** All possess the same desirable dwarf early flowering with 90% large flowers as the Mixture above.

Orchid      Rose-Red      Rose and White

- **Ball Dwarf Giant No. 2—For Bedding.** Some growers prefer this strain for bedding use because it is somewhat more vigorous in growth and includes some pink and copper shades which are not present in the extra dwarf Ball Dwarf Giant No. 1 strain.

**Ramona.** Large, open throated flowers about half rose, balance pink and lavender. Bred especially for pots and combinations.

- **Multibloom Mixture.** Where summer heat is not too intense or prolonged, this strain is bushier and more free flowering, when used for bedding, than the regular No. 1 or No. 2 strains. Typical California Giant flower size and color range.

**Giant Rainbow Strain.** An improved mixture with new colors.

Prices above 7, each: 1/2 tr. pkt., \$1.00; tr. pkt., \$1.75; 1/4 oz., \$2.75; 1/32 oz., \$5.00; 1/16 oz., \$9.50; 1/8 oz., \$18.00; 1/4 oz., \$34.00.

**California Giants Mixture No. 5.** A very complete and attractive mixture of colors in the tall Giant class. Free flowering for bedding.  
Tr. pkt., 75c; 1/4 oz., \$1.35; 1/32 oz., \$2.50; 1/16 oz., \$4.50.

**California Giant—Supreme Florists' Strain.** Fine bedding mixture in soft shades of pink, rose and salmon.  
Tr. pkt., \$1.00; 1/4 oz., \$1.75; 1/32 oz., \$3.00; 1/16 oz., \$5.50.

**Setting Sun.** Fringed deep rose; rather restricted growth.  
Tr. pkt., 85c; 1/4 oz., \$2.00; 1/32 oz., \$3.50.

- **Dwarf Grandiflora Mixture (Dwarf Erfurt).** A formula mixture of Dwarf Fringed varieties, including those mentioned in the pot plant types listed above. Tr. pkt., 85c; 1/4 oz., \$2.00; 1/32 oz., \$3.50.

## FRINGED GRANDIFLORAS

**Dazzler.** Free flowering, deep carmine-rose. Extra early and dwarf. A fine pot plant variety. Tr. pkt., 60c; 1/4 oz., \$1.50; 1/32 oz., \$2.75.

**Fluffy Ruffles.** An attractive fringed mixture for bedding work.  
Tr. pkt., 85c; 1/4 oz., \$1.90; 1/32 oz., \$3.40; 1/16 oz., \$5.75; 1/8 oz., \$10.50.

- **Fringed Snowstorm.** Nicely fringed, pure white flowers with faint gold throat are very freely produced. Good for either pots or bedding.  
1/2 tr. pkt., 65c; tr. pkt., \$1.00; 1/4 oz., \$2.35; 1/32 oz., \$3.75; 1/16 oz., \$6.75.

**Theodosia Improved.** Extra large, heavily fringed flowers of brilliant glowing rose with golden yellow throat.  
Tr. pkt., 90c; 1/4 oz., \$1.80; 1/32 oz., \$3.30; 1/16 oz., \$6.00; 1/8 oz., \$11.00; 1/4 oz., \$20.00.

- **Fringed Grandiflora Mixture.** A high class mixture made up of the best named varieties in the Fringed class.  
Tr. pkt., 85c; 1/4 oz., \$1.90; 1/32 oz., \$3.40; 1/16 oz., \$5.75; 1/8 oz., \$10.50.



**BALL DWARF GIANT No. 1**

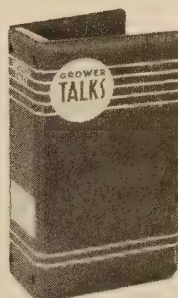
This is the finest Giant Petunia for spring pots, and bedding sales. Over 90% very large flowers, in orchid, rose and red shades, and bicolors.

## SEPARATE COLOR CALIFORNIA GIANTS

**White Giant.** Pure white petals with yellow throat.

**Copper-Red, Dark.** Attractive deep coppery crimson.

Prices above 2, each: tr. pkt., \$1.75; 1/4 oz., \$2.75; 1/32 oz., \$5.00.



## NEW GROWER TALKS BINDER

We are pleased to announce a new GROWER TALKS Binder. The new washable, green plastic binders are made with a clear plastic pocket on the back, in which to insert a small card showing dates of issues enclosed. Will hold 24 issues (not included). \$2.00, postpaid.

(See page 6 for subscription rates for GROWER TALKS).



# Dwarf Bedding Petunias

THE 10 BEST INBRED VARIETIES ARE INDICATED BY DOTS

Each year on the basis of reports from customers, as well as from our own flowering trials, we revise our recommended list of 10 best varieties. It should be noted that this list does not include the F<sub>1</sub> Hybrid Multifloras, as we have placed these varieties in a "class by themselves".

## ● ADMIRAL

This is one of our finest blue Petunias. Large, attractively ruffled flowers; clear bright velvety blue. Ideal for either pots or bedding. Pictured at right.

Tr. pkt., 80c; 1/4 oz., \$1.65; 1/2 oz., \$2.90; 1/16 oz., \$5.25; 1/8 oz., \$9.50.

**Blue Bedder.** Vigorous growing, large flowered mid-blue.  
Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

## ● CELESTIAL ROSE IMPROVED

Bright rose-pink. Unexcelled for pot plant work or bedding. Our strain has been unsurpassed in the florist trade for over 25 years.

Tr. pkt., 60c; 1/8 oz., \$1.15; 1/4 oz., \$2.00; 1 oz., \$6.50.

● **Cheerful.** Medium large, star-shaped flowers of clear salmon are freely produced on uniform, fairly dwarf plants. Tr. pkt., 75c; 1/16 oz., \$2.00; 1/8 oz., \$3.75; 1/4 oz., \$6.00.

**Cream Star.** Star-shaped, creamy white. Tr. pkt., 50c; 1/8 oz., \$1.25; 1/4 oz., \$2.25.

● **Elk's Star.** Deep crimson-purple with white star.  
Tr. pkt., 60c; 1/16 oz., \$1.80; 1/8 oz., \$3.30; 1/4 oz., \$6.00.

● **Fire Chief.** Newly opened flowers are a true scarlet-red, turning to deep salmon-rose with age. Tr. pkt., 50c; 1/16 oz., \$1.65; 1/8 oz., \$2.90; 1/4 oz., \$5.00; 1 oz., \$15.00.

**Glow.** Bright rose-red flowers are produced in abundance on dense growing, vigorous plants of uniform habit. Tr. pkt., 50c; 1/16 oz., \$1.25; 1/8 oz., \$2.00; 1/4 oz., \$3.75; 1 oz., \$13.50.

**Igloo.** White. Extra dwarf, well shaped plant. Clean, bushy habit.  
Tr. pkt., 60c; 1/8 oz., \$1.15; 1/4 oz., \$2.00; 1 oz., \$6.50.

**Lipstick.** Bright cerise-rose flowers faintly shaded salmon, with white throat, are carried on fairly dwarf plants of uniform size.  
Tr. pkt., 50c; 1/16 oz., \$1.65; 1/8 oz., \$2.90; 1/4 oz., \$5.00.

● **Moonstone.** This F<sub>2</sub> Petunia is vigorous in growth with freely produced Multiflora type flowers of light ivory-yellow. Blends well with purples and blues.  
Tr. pkt., \$1.00; 1/32 oz., \$3.50; 1/16 oz., \$6.50; 1/8 oz., \$12.00.

**Rosy Morn.** Popular rose-pink with large white throat.  
Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$5.25.

● **Sky Chief.** Clear light blue; a bit lighter than Heavenly Blue, and more dwarf in growth.  
Tr. pkt., 60c; 1/8 oz., \$1.80; 1/4 oz., \$3.30; 1 oz., \$9.90.

● **Snowball Imp.** Pure white. Compact and uniform, yet vigorous.  
Tr. pkt., 50c; 1/4 oz., \$1.80; 1 oz., \$5.40.

● **Topaz Queen.** A remarkable color combination of glowing carmine-rose with distinct orange-scarlet overtones.  
Tr. pkt., 50c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$6.00.

**Twinkles.** Very showy rose-pink with white star. Uniform growth and markings. Tr. pkt., 60c; 1/8 oz., \$1.70; 1/4 oz., \$3.00; 1 oz., \$9.00.



ADMIRAL

● **Velvet Ball.** Dark red; almost identical to King Henry in color but more spreading in growth and better adapted for bedding use.  
Tr. pkt., 75c; 1/32 oz., \$1.50; 1/16 oz., \$2.75; 1/8 oz., \$5.25; 1/4 oz., \$10.00.

**Viola.** Deep purple. Tr. pkt., 40c; 1/4 oz., \$1.40.

## ● BEST FORMULA MIXTURE

We mix this ourselves, blending the best of the above varieties in proportions pleasing to the eye. Fine for spring flat or pak sales.  
Tr. pkt., 50c; 1/16 oz., \$1.00; 1/8 oz., \$1.85; 1/4 oz., \$3.50; 1 oz., \$10.00.

**Dwarf Bedding Mixture.** A blend of good bedding varieties.  
Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.50.

**Dwarf Bedding Starred Mixture.** Nice mixture of starred types.  
Tr. pkt., 75c; 1/4 oz., \$3.00; 1 oz., \$9.00.

**COLLECTION:** For growers who are interested in trying all the 10 Best Varieties separately rather than in a mixture, we offer a tr. pkt. of each of the named dotted varieties for \$5.75.

## THE BALCONIES

Strong growers of spreading or semi-trailing habit.

**Black Prince.** Deep velvety crimson-red.

White      Royal Rose      Blue      Mixture

Prices above 5, each: tr. pkt., 40c; 1/8 oz., \$1.25; 1/4 oz., \$2.25; 1 oz., \$6.75.



## Pano-drench — a most effective control for damp-off

Many growers have reported their findings on the use of Pano-drench to control damp-off and certain other diseases in flower pots, seed flats, propagating benches, stock benches, etc. The results were remarkable, as indicated by comments at right.

Pano-drench is used as a pre-emergence or post-emergence drench—two teaspoons to three gallons of water—and is applied with an ordinary sprinkling can.

Easy to use, Pano-drench can end your damp-off problems, control diseases like stem rot and root rot.

Order your Pano-drench today. 1-oz. bottle, \$1.95; 4-oz. bottle, \$5.95; 16-oz. bottle, \$19.20; four 16-oz. bottles, \$57.60; 1-gal. bottle, \$98.60.

## COMMENTS FROM USERS

"I think Pano-drench is the best thing on the market. I never had seedlings come as nice as they have this year."—Wisconsin.

"Your product was recommended to me by the Citrus Experimental Station at Riverside, and is everything you say it is. It has made me a cool \$1,000 this spring."—California.

"Never saw so many Snapdragon seedlings in my life. Especially good on Peppers as it has been a long time since I have seen flats develop 104 plants when I put in that many seedlings."—Washington.

"Flats of Australian Pine seed treated with Pano-drench came up almost 100%. Another flat, untreated, germinated only about 50%."—Florida.

"Pano-drench actually stopped damping-off already well advanced in a flat of Petunia seedlings."—Oregon.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.





**FIREBALL**  
Super-Dwarf, Compact

**ST. JOHN'S FIRE**  
Dwarf Early

**BLAZE OF FIRE**  
Medium Tall, Midseason

## SALVIA

### ANNUAL (*S. species*)

7500 S. 2-3 weeks 65-75°

**SPLENDENS** (Scarlet Sage). This strikingly colorful, brilliant scarlet annual is popular wherever bedding plants are grown. Be sure to include some of the dwarf varieties for your customers, too. The following are listed according to flowering date—earliest first. (Sown April 1st in Chicago). Effective planted with white Petunias or with a background of evergreens. **NOTE:** Salvia is especially sensitive to methyl bromide treated soil.

### EXTRA DWARF

#### ● FIREBALL

An earlier, more dwarf Salvia which should find abundant use where **extra early blooming** and **more dwarf habit** is wanted. Fireball has a unique base-branching, almost spreading habit, and will bloom profusely and continually until frost. Blooms early (June 20) making flatted Salvia sell on sight! Also sells well in pots or paks—first flowers 10 weeks from sowing. 10 inches tall. Tr. pkt., \$1.25; 1/8 oz., \$2.20; 1/4 oz., \$4.00; 1 oz., \$12.00.

### DWARF (Early)

#### ● ST. JOHN'S FIRE

June 25. The most popular dwarf Salvia. About 12 inches high. Tr. pkt., \$1.00; 1/8 oz., \$1.65; 1/4 oz., \$2.75; 1/2 oz., \$5.00; 1 oz., \$9.00; 4 ozs., \$30.00.

- **Blaze of Fire.** June 30. The standard medium early strain. Closely follows St. John's Fire in flowering. 14 to 16 in. Tr. pkt., 85c; 1/4 oz., \$2.25; 1/2 oz., \$3.85; 1 oz., \$7.25; 4 ozs., \$24.00.

### MEDIUM (Midseason)

- **Firebrand** (Early Harbinger). July 10. 18 in. Between Blaze of Fire and America in earliness of flowering. Remains in full flower throughout the summer. Extra long spikes. Tr. pkt., 85c; 1/4 oz., \$2.25; 1/2 oz., \$3.85; 1 oz., \$7.25; 4 ozs., \$24.00.

#### ● AMERICA

(Globe of Fire). July 20. 20 in. This is our uniformly true and even stock of this fine variety. Follows Firebrand in flowering date. Popular for background planting. Tr. pkt., 65c; 1/4 oz., \$2.00; 1 oz., \$6.00; 4 ozs., \$20.00.

### TALL (Late)

- **Bonfire.** July 25. 26 in. Medium tall, very even. Popular for background planting. Tr. pkt., 65c; 1/4 oz., \$1.50; 1 oz., \$5.25; 4 ozs., \$17.50.
- **Clara Bedman.** July 25. A very free flowering, medium tall strain. Similar to Bonfire. *Originator's Seed.* Tr. pkt., 65c; 1/4 oz., \$2.00; 1 oz., \$6.00; 4 ozs., \$20.00.
- **Splendens Tall.** August 10. 2 1/2 ft. The original late flowering species. Tr. pkt., 45c; 1/4 oz., \$1.40; 1 oz., \$4.50; 4 ozs., \$15.00.

### OTHER COLORS

- **White Fire.** June 25. 12 in. A creamy white Salvia, similar in habit to St. John's Fire. Tr. pkt., \$1.00; 1/8 oz., \$3.00; 1/4 oz., \$5.00; 1 oz., \$15.00.
- **Rose Flame.** August 5. 20 in. Coral-pink calyx surrounding the deeper rose petal tube. Tr. pkt., 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.
- **Salmon Pygmy.** June 25. Pink with orange corolla. About 12 inches high. Tr. pkt. (1/32 oz.), \$1.00; 1/16 oz., \$1.80; 1/4 oz., \$6.00; 1 oz., \$18.00.
- **VIOLET FLAME (NEW).** June 30. Unusual violet-purple flowers. Similar in habit and season to Blaze of Fire. Tr. pkt., 85c; 1/4 oz., \$2.25; 1/2 oz., \$3.85; 1 oz., \$7.25.

FARINACEA (Blue Salvia). 24,000 S.

#### ● ROYAL BLUE

July 1. 3 ft. This is our own reselected strain, grown especially for us from an entirely new selection. Color is a true deep blue. We highly recommend this. Tr. pkt. (1/16 oz.), 55c; 1/4 oz., \$1.65; 1 oz., \$5.00.

**ROYAL WHITE (NEW).** July 1. 3 ft. Dusty Miller white. Tr. pkt. (1/16 oz.), 55c; 1/4 oz., \$1.65; 1 oz., \$5.00.

HORMINUM (Foliage Plant). 9500 S.

- **Pink Sundae.** July 15. 14 in. Bushy, base-branching plants sending up many stems, each terminating in a cluster of bright pink leaves in the same manner as a Poinsettia. Very attractive, novel, and easy to grow. Tr. pkt. (1/16 oz.), 40c; 1/4 oz., \$1.20; 1 oz., \$3.60.
- **BLUE BIRD (NEW).** July 15. 18 in. A counterpart of Pink Sundae, but more useful because of its longer spikes of deep, true blue. Don't overlook the cut-flower value of this item; the 12- to 18-inch branches lend themselves beautifully to all kinds of floral arrangements. Tr. pkt. (1/16 oz.), 40c; 1/4 oz., \$1.20; 1 oz., \$3.60.
- **PERENNIAL** (*S. patens*) 3800 S. 2-3 weeks 65-75°  
**Patens** (Gentian Sage). 2 1/2 ft. Deep, bright blue, hardy Salvia. Tr. pkt. (1/16 oz.), 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.

Salvia, St. John's Fire is "Sweet Sixteen" for '60. Be sure to include plenty on your order.



## PYRETHRUM (Painted Daisy)

**PERENNIAL** (*P. roseum*) 18,000 S. 1-2 weeks 65-75°  
2 ft. Long prized as a source of summer cut flowers. Will make an excellent showing with a minimum of care.

- **James Kelway.** Best deep crimson.

**Robinson's Dark Crimson.** Giant flowered, dark red.

**Rose.** Single pink flowers.

- **Robinson's Mixture.** Large single mixture.

Prices above 4, each: tr. pkt., 60c; ¼ oz., \$1.50; 1 oz., \$4.75.

**Double Red Double White Double Yellow Double Pink**

Double Pyrethrum seed does not produce 100% double flowers—the percentage is better the second season.

Prices above 4, each: tr. pkt., 50c; ⅛ oz., \$1.50; ¼ oz., \$4.50.

- **Double Mixture.** The percentage of large flowers, with double row of petals, exceeds that of any other strain. Note, however, that 2 years' growth is required to produce the finest flowers in any double Pyrethrum. Tr. pkt., 60c; ⅛ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$8.25.

## QUEEN ANNE'S LACE FLOWER

**ANNUAL** (*Daucus carota*) 36,500 S. 2-3 weeks 65-75°  
2 ft. Large heads of lacy white flowers. Nice filler for basket work.  
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

## RANUNCULUS (Buttercup)

**ANNUAL** (*R. asiaticus*) 5700 S. 3-5 weeks 65-75°  
**Giant Mixture.** 18 in. Double flowers in shades of yellow, orange, red, blue and white.  
Tr. pkt. (⅛ oz.), 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

## RICINUS (Castor Bean)

**ANNUAL** (*R. communis*) S. See below 2-3 weeks 65-75°  
Very fast growing, tall, large-leaved plants. Good for tall hedges and windbreaks.

**Crimson Spire.** 75 S. 8 ft. Bronzy red foliage with crimson stems and red fruit. 1 oz., 45c; 4 ozs., \$1.40; 1 lb., \$4.50.

**Zanzibariensis Mixture.** 25 S. 10 ft. Foliage bright green.  
1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.00.

## ROSES FROM SEED

**Polyantha.** 9 to 12 in. These delightful little Roses are easily raised from seed, and may be had in flower within 3 months from sowing. Young plants will bloom right through the summer in pots or window boxes and will continue year after year with a minimum of attention. Single, semi-double and double blooms in shades of white, pink and rose.

100 seeds, 85c; 500 seeds, \$3.50.

## RUDBECKIA (Coneflower)

**ANNUAL** (*R. hirta*) 85,000 S. 2-3 weeks 65-75°  
A very free flowering bedding plant. Valuable for cutting.

- **Gloriosa Daisies.** 3 ft. This tetraploid Rudbeckia produces large, single flowers up to 6 inches across in shades of yellow and mahogany-red. Tr. pkt. (⅓ oz.), 45c; ¼ oz., 85c; ¼ oz., \$2.50; 1 oz., \$7.50.

**Starlight.** 2½ ft. An attractive mixture of yellow, orange and brown shades flowering on long stems; flower type ranges from nearly single to fully double.

Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.25.

**PERENNIAL** (*Echinacea purpurea*) 7000 S. 2-3 weeks 65-75°  
**Purpurea.** 4 ft. Reddish purple flowers.  
Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.50.

## SAINTPAULIA (African Violet)

**ANNUAL** (*S. ionantha*) 750,000 S. 3-4 weeks 65-75°

Nice 3-inch pots of this extremely popular plant can be grown from seed in 6 to 8 months, if care is exercised in germination. Handle about like Begonia seed. Uniform moisture, a 65° temperature, plenty of soil organic matter, and protection from bright sun are necessary in growing good Saintpaulias.

- **Blue Fairy Tale.** Extra free blooming and fast growing. Bright blue flowers.

Tr. pkt., \$2.00; ⅛ oz., \$15.00.

**Single Mixture.** A choice, large flowered mixture of colors in many attractive shades.  
300 seeds, \$2.00.

- **Double Mixture.** 40% double and semi-double—balance single. All colors and foliage types are represented here. 300 seeds, \$3.00.



**SAINTPAULIA**

Try starting Saintpaulias in Jiffy-Pots. Jiffies will protect the root ball when shifting to more decorative containers or planters.

## SALPIGLOSSIS

**ANNUAL** (*S. sinuata superbissima*) 125,000 S. 2 weeks 65-75°  
Salpiglossis furnishes cut flower material either from a January-February sowing indoors or a later one grown outdoors. Colorful, 2½-in., funnel-shaped flowers.

**Emperor Mixture.** 2½ ft. Tall, for cutting. All colors.

**Dwarf Giant Flowered Mixture.** 20 in. For bedding and borders. All colors.

Prices above 2, each: tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

## SANVITALIA

**ANNUAL** (*S. procumbens*) 50,000 S. 1-2 weeks 65-75°  
**Procumbens** (Creeping Zinnia). 4 to 6 in. A very fine, dwarf border plant with many small yellow flowers.  
Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

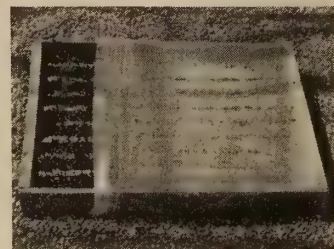
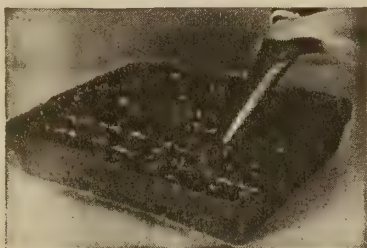
## BALL PLASTICOVER

Here's a proven idea to simplify your germination problems. The **Ball Plasticover** is a light gauge flexible plastic tube that fits completely around seed flats. Seeds protected by a Plasticover seldom need additional watering before germination.

**To use the Plasticover,** sow the seed in your usual way and water thoroughly. Then cut off a piece of the tubing long enough to slip over the flat and fold under at each end. Leave the Plasticover on until the seeds are well up, then remove and continue normal culture.

**Plasticovers work the year around**—they help you get the same even germination winter, spring and summer.

**PRICE:** Per roll, 20 inches in diameter, 100 feet long, \$5.00 net, prepaid.



## VIBRA-SEEDER

Many gadgets for hand sowing of seeds have been tried by our growers. We always come back to the Vibra-Seeder. No parts to change, takes all sizes and shapes of seeds with the same easy vibrating action, which assures an even flow of seed and ultimately an even stand of seedlings. Flashlight batteries not included.

**Price:** \$2.50 net, prepaid.



## SAPONARIA

**PERENNIAL** (*S. ocymoides*) 5500 S. 2-3 weeks 65-75°

**Ocymoides.** 9 in. Trailing rock plants; rose-pink flowers. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.25.

## SCABIOSA (Pincushion-Flower)

**ANNUAL** (*S. atropurpurea*) 4500 S. 2-3 weeks 65-75°

Tall, 2 to 3 ft. No retail grower should be without some Scabiosas for spring greenhouse or outdoor summer cutting. They're long-stemmed and free flowering with a variety of pleasing colors to choose from.

- **Shasta Improved.** Fine pure white.
- **Oxford Blue.** Somewhat darker than Blue Moon. Extra large flowers on long stems.
- **Loveliness.** Large flowered, deep salmon-pink.
- **Blue Moon.** Fine lavender-blue color with large flowers on long, wiry stems. The standard market color.

Prices above 4, each: tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

### ● GIANT MIXTURE

A special strain containing only the new large flowered varieties. Well balanced in good cut-flower colors. Use this mixture if you want only a small planting of Scabiosa for cutting. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

**DWARF CLASS.** For bedding and garden work.

**Tom Thumb Mixture.** 10 in. Dwarf and compact plants for bedding and edging. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

**PERENNIAL** (*S. caucasica*) 2400 S. 2-3 weeks 65-75°

2½ ft. Excellent large flowered perennial cut-flower material. Seed germination sometimes slow. Flower heads up to 3 in. across.

**Goldingensis.** Large flowered, fine deep lavender.

Tr. pkt., 60c; ¼ oz., \$1.75; 1 oz., \$5.25.

- **House Mixture.** Large flowers ranging from white to deep blue.

Tr. pkt., 45c; ¼ oz., \$1.35; 1 oz., \$4.00.

## SCHIZANTHUS (Butterfly Flower)

**ANNUAL** (*S. species*) 60,000 S. 1-2 weeks 65-75°

These easily grown plants literally cover themselves with a brilliant mass of showy blooms. A January sowing will produce nice 3-inch plants for spring combinations. Sow September to November for larger pot plants and spring cut flowers.

- **Ball Giant Flowered.** Extra large flowers (often 2 inches across) and unusually brilliant colors. Nice for cutting or makes a choice pot plant if pinched.

- **Ball Dwarf Mixture.** A dwarf-growing strain with large heads of medium sized flowers. Makes an excellent 3- or 4-inch pot plant.

Prices above 2, each: tr. pkt., 60c; ¼ oz., \$1.80; 1 oz., \$3.25.

## SEDUM

**PERENNIAL** (*S. species*) 400,000 S. 3-4 weeks 65-75°

**Golden Carpet** (Acre). 3 in. A very nice extra dwarf evergreen. Small light yellow flowers produced in June. Very strong, hardy grower. Tr. pkt. (3000 seeds or more), 50c.

**Rock Garden Blend.** Many species with various colors and forms make up this interesting mixture. Tr. pkt. (3000 seeds or more), 50c.

## SHAMROCK

**ANNUAL** (*Trifolium repens minus*) 28,000 S. 1-2 weeks 65-75°

**True Irish Shamrock.** For 2-inch St. Patrick's Day plants sow in late December or early January using 3 or 4 seedlings per pot. Grow cool (50°) after germination. Our seed is the true Trifolium (Clover). The best results will be obtained in soil that is about 50% clay.

Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.20.

## SMILAX

**ANNUAL** (*Asparagus asparagoides*) 4000 S. 3-4 weeks 65-75°

Popular climber for greens.

Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.50.

**Snow-on-the-Mountain.** See Euphorbia, page 22.

**Solanum.** See Cherries, Christmas, page 16; Peppers, Christmas, page 31; and Love Apple, page 27.

## SNAPDRAGONS

Gro. J. Ball  
INC.

See pages 50-55.

## STATICE

**ANNUAL** (*Limonium species*) 350 S. 2-3 weeks 65-75°

**SINUATA.** 2½ ft. This attractive annual is largely grown outdoors, especially in southern localities, but a mid-winter sowing makes a nice late spring greenhouse crop. May be used in the fresh state or dried.

### NEW!

A new, greatly improved strain, in color as well as size, which will give a real boost to the popularity of this favorite everlasting flower. See color picture on page 56.

**AMERICAN BEAUTY.** Improved Market Rose.

**ROSELIGHT.** Vigorous, pure rose.

**APRICOT PASTEL TONES.** Unusual pastel shades.

**GOLD COAST.** Bright yellow.

**ICEBERG.** Non-fading white.

**COLLECTION:** ¼ oz. each of the above 8 new varieties, (catalog value \$4.00), for \$3.60.

**TWILIGHT LAVENDER.** Lavender-blue.

**MIDNIGHT BLUE.** Vigorous, deep blue.

**BLUE BONNET.** Clear sky-blue.

Prices above 7, each: ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$15.00.

- **Heavenly Blue** Market Rose
- **Market Grower's Rose**
- **Snow Witch**

- **Bonduelli Superba.** Similar to the Sinuatas with yellow flowers.

Prices above 6, each: tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50; 1 lb., \$7.50.

- **Superb Mixture.** Contains a complete range of colors, from white through chamois, pink, rose and light blue to deep blue.

Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50; 1 lb., \$7.50.

**Suworowi** (Russian or Rat-Tail Statice). 12,000 S. Useful for greenhouse forcing. Long, lavender spikes.

Tr. pkt., 30c; ¼ oz., \$1.00; 1 oz., \$3.00.

**PERENNIAL** (*Limonium species*) S. See below 2-3 weeks 65-75°

Perennial Statice are very hardy, make good cut-flower material and can be dried and dyed.

**Caspia.** 170,000 S. 8 inches to 1½ ft. Seedlings flower second season. Lilac. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

- **Dumosa.** 19,000 S. 18 in. Dense clumps of silvery gray flowers. Tr. pkt., 40c; ¼ oz., \$1.00; 1 oz., \$3.00.

- **Latifolia** (Sea Lavender). 40,000 S. 2½ ft. Standard blue perennial Statice. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

**Perezi.** 14,000 S. Flowers in large lavender heads first year from seed. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

## STOCK

See page 56.

## STOKESIA (Stokes' Aster)

**PERENNIAL** (*S. cyanea*) 3300 S. 4-6 weeks 65-75°

**Cyanea.** 20 in. Large blue flowers.

Tr. pkt., 40c; ¼ oz., \$1.35; 1 oz., \$4.00.

## STRELITZIA (Bird of Paradise)

**ANNUAL** (*S. reginae*) 140 S. 3-4 weeks 65-75°

**Regina.** Exhibition strain. Giant flowers of dark blue and deep orange. 10 seeds, \$1.25; 100 seeds, \$10.00.

## STREPTOCARPUS (Cape Primrose)

**ANNUAL** (*S. hybridus*) 750,000 S. 2-3 weeks 65-75°

### ● WIESMOOR HYBRIDS

Fringed, Orchid-like flowers 4 to 5 inches across in a bright array of colors, including shades of pink, red, blue, lilac and white. Sow from October to March for cut flowers or pot plants from April to December. *Originator's* tr. pkt., \$1.25; 5 tr. pkts., \$5.25.

**Sunflower.** See Helianthus, page 24.



The commercial quality of Ball Hybrid Snap varieties is assured by thorough tests conducted under commercial growing conditions at our West Chicago greenhouses. Carl Ball and Bob Rieman, plant breeder, looking over a sample of Doubloon.



# Greenhouse Snapdragons

(FORCING)

ANNUAL (*Antirrhinum majus*)

125,000 S. 1-2 weeks 65-75°

**ABOUT BLOOMING DATES:** Because of the remarkable strides made the last two years in year 'round Snap programming, and because of the recent development of varieties especially bred for specific seasons, we believe the old concept of "early", "midseason", and "late" in reference to varieties, has lost its meaning. We feel that the year divides itself into no less than seven rather well defined Snapdragon blooming periods in the northern part of our country. Hence, we have classified the Snap varieties listed here by letters to indicate the season or seasons for which each variety is best adapted. The letters incorporated in the variety description on these pages refer to specific blooming seasons as follows:

**M. W.** Midwinter (December-January)

**E. Sp.** Early spring (February-early April)

**L. Sp.** Late spring (Mid-April-May)

**E. Su.** Early summer (Late May-June)

**M. Su.** Midsummer (July-early September)

**E. F.** Early fall (mid-September-October). (Same as early summer)

**L. F.** Late fall (November)

Remember, though, that conditions vary in different localities, and that keeping your own records will prove an invaluable guide in planning future crops.

1/2 Pkts. Available Only Where Listed

## BALL HYBRID SNAPS

The following Ball Hybrids have come to be accepted as standards with growers everywhere—with improvements being added annually. See listings on these pages for a complete description of these varieties.

● **SIERRA** (NEW—Ball). By far the best midwinter white. Forms excellent spikes on firm, long stems. This variety has performed exceptionally well in our West Chicago greenhouses the last three winters. Pictured at left.

● **SPANISH LADY** (NEW—Ball). An excellent light pink in the Christina class for midwinter and spring flowering. Hard, clean stems and long, tapering spikes have led us to believe this is one of the best light pink Snaps to come along in many years. Pictured at left. **SOLD OUT TILL JULY 1.**

### Other Ball Hybrids

#### WHITE

Sierra (New)  
Snowman  
Pike's Peak  
June Bride

#### YELLOW

Golden Spike  
Doubloon

#### PINK

Spanish Lady (New)  
Flower Girl  
Hercules  
Holiday  
Pink Ice

#### BRONZE and RED

Indian Chief  
Navajo  
Cherokee

#### ROSE

Treasure Chest  
Bridesmaid  
Showgirl  
Rosanna  
Jackpot

#### LAVENDER

Lavender Lady  
Esquire  
Hyb. Form. Mix.

Prices above Ball Hybrid Snaps, each: 1/2 tr. pkt., \$2.00; tr. pkt., \$3.50.



Two New Ball Hybrids—  
Spanish Lady (pink) and Sierra



# Greenhouse (Forcing) Snapdragons

COMPLETE LIST OF VARIETIES — OUR RECOMMENDATIONS ARE DOTTED  
SEE PAGE 54 FOR SNAP CULTURE

**(F) HYBRID**

All Snapdragons listed on these pages are genuine **(F) HYBRID** varieties except those marked "inbred" which are self-pollinated kinds.

**(F) HYBRID**

## WHITE

Tr. pkt.

- **SIERRA** (NEW—Ball). M.W. By far the best midwinter white. Forms excellent spikes on firm, long stems. Pictured on opposite page. ½ tr. pkt., \$2.00 ..... \$3.50
- **Snowman** (Ball). E. Sp. Excellent pure white. The most widely grown pure white for early spring. ½ tr. pkt., \$2.00 ..... 3.50
- **Pike's Peak** (Ball). L. Sp. Strong growing white with slight ivory cast. ½ tr. pkt., \$2.00 ..... 3.50
- **June Bride** (Ball). E. Su. and E. F. The finest pure white for late spring and early fall single stem greenhouse use. Shatterproof. ½ tr. pkt., \$2.00 ..... 3.50
- **Albion** (Yoder Bros.). L. F., E. and L. Sp. A pure white which in our trials produces a better spike than White Knight, although it is two weeks later .... 3.50
- **Apollo** (Yoder Bros.). L. Sp. and L. F. Ivory, yellow lip ..... 3.50
- **Citation** (Yoder Bros.). M. W. and E. Sp. Ivory. Very fine long spikes and clean, hard stems ..... 3.50
- **Crystal White, Ball Strain** (Inbred). M. Su. Our own growing. Quite similar to the Yoder strain. ½ tr. pkt., \$1.75 ..... 3.00
- **Crystal White No. 2, Rockwood's** (Inbred). M. Su. Excellent summer white. ½ tr. pkt., \$2.00 ..... 3.50
- **Margaret** (Inbred). E. and L. Sp. Ivory. Very productive ..... 2.00
- **Maryland White Improved** (Winkler). E. and L. Sp. Pure white. ½ tr. pkt., \$2.00 ..... 3.50
- **Potomac White** (Winkler). E. Su. and E. F. Summer flowering white Hybrid. ½ tr. pkt., \$2.00 ..... 3.50
- **ROCKWOOD'S WHITE No. 7** (NEW). L. Sp. and E. F. Pure white. Same season as White Skies ..... 3.50
- **Snowdrift** (Inbred). L. Sp. Double flowering white. New, improved strain bred for high light intensity areas or spring growing only. ½ tr. pkt., \$1.75 ..... 3.00
- **Spartan White** (MSU). E. and L. Sp. Clean growing, pure white. ½ tr. pkt., \$1.75 ..... 3.00

- **Twenty Grand** (Yoder Bros.). SOLD OUT. Tr. pkt.
- **White Knight** (Yoder Bros.). M. W. A pure white ..... \$3.50
- **White Skies** (Yoder Bros.). E. Su. and E. F. A good white Snap for summer. Comparable to June Bride, but between that variety and Crystal White in flowering season ..... 3.50

## YELLOW

- **Doubloon** (Ball). M. W. and E. Sp. Pictured above. Here's the rich, deep "treasure-gold" color you've wanted for years in a true midwinter blooming Snap. Doubloon is many shades deeper and brighter than War Admiral or Patricia. ½ tr. pkt., \$2.00 ... 3.50
- **Golden Spike** (Ball). L. Sp. A rich, deep golden yellow with long tapering spikes. ½ tr. pkt., \$2.00 ..... 3.50
- **Broker's Tip** (Yoder Bros.). E. Sp. Medium yellow; firm stems ..... 3.50
- **Dark Star** (Yoder Bros.). E. Su. and E. F. A deep yellow with good spikes and hard stems. A week earlier than Rockwood's Summer Yellow, and a better Snap. For summer only ..... 3.50
- **Patricia** (J. S. Yoder). E. Sp. Medium yellow. ½ tr. pkt., \$2.00 ..... 3.50
- **Potomac Yellow** (Winkler). E. Su. and E. F. Medium yellow. ½ tr. pkt., \$2.00 ..... 3.50
- **ROCKWOOD'S YELLOW No. 11** (NEW). L. Sp. and E. F. Bright yellow. Same season as Dark Star ..... 3.50
- **Rockwood's Summer Yellow** (Inbred). M. Su. Fairly deep yellow, for summer only. ½ tr. pkt., \$1.75 ..... 3.00
- **Swaps** (Yoder Bros.). M. W. Large yellow florets; compact spike and hard stem. Earlier than War Admiral ..... 3.50
- **War Admiral** (Yoder Bros.). M. W. Excellent medium yellow ... 3.50



TREASURE CHEST



DOOBLOON

## LIGHT PINK

Tr. pkt.

- **Hercules** (Ball). E. and L. Sp. and L. F. Beautiful light pink. Long spikes with clean, hard stems are big features here. ½ tr. pkt., \$2.00 ..... \$3.50
- **SPANISH LADY** (NEW—Ball). M. W. and E. Sp. An excellent light pink in the Christina class. Hard, clean stems and long, tapering spikes. SOLD OUT TILL JULY 1.
- **Christina** (J. S. Yoder). E. Sp. Popular light pink. ½ tr. pkt., \$2.00 ..... 3.50
- **Mary Ellen** (J. S. Yoder). E. Sp. Light pink. ½ tr. pkt., \$1.50 ... 2.50
- **Maryland Pink Imp.** (Winkler). E. Sp. Creamy light pink. ½ tr. pkt., \$2.00 ..... 3.50
- **Nashua** (Yoder Bros.). E. Sp. Light pink ..... 3.50
- **Native Dancer** (Yoder Bros.). E. Sp. and L. F. This light pink is a shade darker than Rosebud. Stems are hard and clean with well formed flower spikes. SOLD OUT.
- **Rebecca** (J. S. Yoder). E. Sp. A slightly lighter pink than Christina and a bit earlier. ½ tr. pkt., \$2.00 ..... 3.50
- **ROCKWOOD'S SUMMER PINK No. 2** (NEW). L. Sp. and E. F. A shade lighter pink than Rockwood's Summer Pink No. 1. Same season as Gaytime ..... 3.50
- **Rosebud** (Yoder Bros.). L. Sp. Pleasing light pink for spring. Clean growth ..... 3.50
- **Top Flight** (Yoder Bros.). E. Sp. Light pink, similar to Christina but a few days earlier ..... 3.50
- **Whirlaway** (Yoder Bros.). M. W. Pink with large yellow lip ... 3.50

**(F) HYBRID** indicates genuine 1st generation hybrid.



# Greenhouse (Forcing) Snapdragons

**(F) HYBRID** All Snapdragons listed on these pages are genuine **(F) HYBRID** varieties except those marked "inbred" which are self-pollinated kinds. **(F) HYBRID**

## MEDIUM PINK

Tr. pkt.

- **Flower Girl** (Ball). E. Sp. Long medium pink spikes carried on clean firm stems. ½ tr. pkt., **\$2.00** ..... **\$3.50**
- **Holiday** (Ball). E. Sp. Medium pink; long spikes. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Pink Ice** (Ball). M. W. and E. Sp. Bright pink with lighter lips. An excellent hard-stemmed variety. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Anne Marie** (J. S. Yoder). L. Sp. Clear, medium pink. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Chevy Chase Pink** (Winkler). E. Sp. Similar to Maryland Pink, but a shade darker. Shatterproof. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Gaytime** (Yoder Bros.). E. Su. and E. F. Medium pink, yellow lip. A week earlier than Rockwood's Summer Pink No. 1 with better vigor, stem and color ..... **3.50**
- **Pompey** (Yoder Bros.). E. Sp. Medium pink. Long spikes .... **3.50**
- **Potomac Pink** (Winkler). E. Su. and E. F. Summer flowering pink Hybrid. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Rockwood's Summer Pink No. 1** (Inbred). M. Su. Medium rose for summer only. ½ tr. pkt., **\$1.75** ..... **3.00**
- **Rowenna** (Yoder Bros.). M. W. Similar to Wintergreen, but earlier ..... **3.50**
- **Summer Jewel** (Yoder Bros.). E. Su. and E. F. Same color as Rockwood's Summer Pink No. 1, but a few days earlier. We preferred Gaytime in our last summer's greenhouse trials ..... **3.50**
- **Wintergreen** (Yoder Bros.). M. W. Medium pink. One of the best commercial Snaps ..... **3.50**

## BRONZE

- **Indian Chief** (Ball). L. Sp. Scarlet-bronze for spring. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Barbara** (J. S. Yoder). E. and L. Sp. and L. F. Large flowered bronze with pink throat. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Cavalcade** (Yoder Bros.). E. Sp. A lively golden bronze ..... **3.50**
- **Gallant Fox** (Yoder Bros.). E. Sp. Medium rosy bronze. Very fine ..... **3.50**
- **Jubilee** (Winkler). E. Sp. Light golden bronze. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Maryland Orange** (Winkler). E. Sp. Large-flowered rosy bronze. Hard stems. ½ tr. pkt., **\$2.00** ..... **3.50**
- **ROCKWOOD'S SUMMER ORANGE** (NEW—Inbred). M. Su. Bright orange-bronze. For summer only ..... **3.00**

## LAVENDER

- **Lavender Lady** (Ball). E. and L. Sp. A deep rosy lavender shade with excellent spikes and stems. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Esquire** (Ball). E. Sp. Bright wine or fuchsia-purple. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Bold Venture** (Yoder Bros.). M. W. Fuchsia-purple. Long stems and spikes ..... **3.50**
- **Maryland Lavender** (Winkler). E. Sp. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Rockwood's Lavender-Rose** (Inbred). M. Su. For summer only. ½ tr. pkt., **\$1.75** ..... **3.00**
- **ROCKWOOD'S SUMMER ORCHID** (NEW—Inbred). M. Su. Darker than Rockwood's Lavender-Rose. For summer only ... **3.00**

## RED

- **Cherokee** (Ball). M. W. A true "Christmas" scarlet-red—not the crimson or wine-red color commonly grown. Long, well formed spikes with sturdy stems. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Navajo** (Ball). E. and L. Sp., E. and L. F. We consider this the finest all-purpose red Snap available. Should be sown a week earlier than other varieties for winter. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Man-O-War** (Yoder Bros.). M. W. A copper-red shade with yellow lip ..... **3.50**
- **Maryland Red** (Winkler). E. Sp. Large flowered bright red. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Rockwood's Summer Red** (Inbred). M. Su. For summer only. ½ tr. pkt., **\$1.75** ..... **3.00**

## ROSE

Tr. pkt.

- **Bridesmaid** (Ball). E. Sp. A clear medium rose with exceptionally long spikes of well placed, large florets. ½ tr. pkt., **\$2.00** .. **\$3.50**
- **Jackpot** (Ball). E. Sp. Medium deep rose. Firm stems of medium length carrying long spikes with excellently spaced florets. A heavy producer. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Showgirl** (Ball). L. Sp. and L. F. Medium dark rose. One of the best in its color class. Shatterproof spikes. ½ tr. pkt., **\$2.00** ... **3.50**
- **Rosanna** (Ball). E. Sp. A bright, deep rose with long, tapering spikes. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Treasure Chest** (Ball). E. and L. Sp. Long, tapering spikes of medium rose are carried on hard, clean stems. This really outstanding variety is so free of grassy side growth that plants may be spaced 20% closer together for single stem culture. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Better Times** (Inbred). E. Sp. Bright cerise-rose. ½ tr. pkt., **\$1.25** ..... **2.00**
- **Christmas Cheer** (Windmiller). M. W. Bright rose. ½ tr. pkt., **\$1.75** ..... **3.00**
- **Libby** (J. S. Yoder). E. Sp. Dark rose. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Maryland Flamingo** (Winkler). L. Sp. Bright salmon-rose, similar to Carnations Charlene and Sidney Littlefield. Shatter-resistant. ½ tr. pkt., **\$2.00** ..... **3.50**

**New Times.** Crop failure.

- **Spartan Rose** (MSU). E. Sp. Medium deep rose with long, heavy spikes. ½ tr. pkt., **\$1.75** ..... **3.00**

## MIXTURES

- **Hybrid Formula Mixture.** Well balanced blend of winter and spring Hybrid Snaps. ½ tr. pkt., **\$2.00** ..... **3.50**
- **Sweethearts on Parade** (Inbred). A formula mixture of double flowering colors in shades of crimson, yellow, bronze and white. Satisfactory for spring greenhouse flowering during April-May or for outdoor summer culture. Will not produce satisfactory winter blooms under glass. ½ tr. pkt., **\$1.25**; tr. pkt., **\$2.00**; ¼ oz., **\$4.00**.

SEE PAGE 54 FOR SNAP CULTURE



Summer Snaps—July 28—grown under Mylar at West Chicago. The variety is June Bride. Standard evaporative cooling provided. Robert Rieman, our Snapdragon breeder, in the photo. Summer Snaps are gaining ground across the U. S. For details and culture see February '59 GROWER TALKS.



# Outdoor Snaps

## F<sub>1</sub> HYBRIDS FOR SPRING PLANT SALES OR CUTTING

ANNUAL (*Antirrhinum majus*)

180,000 S. 1-2 weeks 65-75°

If you want bedding Snaps that are in bloom a week or ten days earlier, that branch and bloom much more freely and are more uniform in color and habit—try the Hybrids, the All-America Award Winner “Rockets”, or the proven “Hit Parade” Snaps. They’re extra nice for cutting, too, and often produce three full crops before frost if promptly cut back after each flowering.

The dwarf (Nanum Grandiflorum) type is bushy, with no tendency to sprawl, if not supported. The taller varieties should be supported, if straight stems are wanted.

### **F<sub>1</sub> HYBRID** HIT PARADE SNAPS

For all-purpose bedding Snaps, you can’t beat these genuine F<sub>1</sub> Hybrids, especially adapted to bedding conditions. You’ll have earlier flowers and more of them on bushy plants. *Ball Orig. Seed.*

- **Memory.** Medium pink.
- **Temptation.** Crimson-red.
- **Stardust.** Bright yellow.
- **Sophisticated Lady.** Lavender.
- **Mexicali Rose.** Deep rose.
- **Harvest Moon.** Orange-bronze.
- **Bob White.** Creamy white.

### ● HIT PARADE MIXTURE

Formula mixture of above colors. Early blooming and plenty of flowers all season.

Prices above 8 each: tr. pkt. (500 seeds), \$1.25; 1/128 oz., \$2.00; 1/32 oz., \$6.00; 1/16 oz., \$11.00; 1/4 oz., \$33.00.



**HIT PARADE MIXTURE**  
Extra early, free flowering, bedding Snaps.

### ● NEW **F<sub>1</sub> HYBRID** ROCKET SNAPS

**ALL-AMERICA SELECTION** (All-America Winner for 1960). 2 1/2 to 3 ft. To the best of our knowledge, these are the world’s first F<sub>1</sub> Hybrid Snapdragons bred specifically for outdoor use. Stems and spikes are the finest we’ve ever seen on outdoor Snaps, and compare favorably with well grown greenhouse specimens. Two crops of first class cut flowers can be cut each summer, if well established plants are put out by June 1. The absolute “tops” in Snaps for outdoor bedding plant sales or cut flower use.

#### ROCKET BRONZE

#### ROCKET ROSE

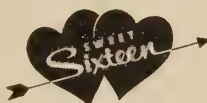
#### ROCKET ORCHID

#### ROCKET PINK

#### ROCKET YELLOW

#### ROCKET RED

#### ROCKET WHITE



is created when Rockets are grown as a mixture.

**ROCKET MIXTURE.** A carefully formulated blend of the above colors. The breeder of this important new All-America Award winning strain has kept blooming dates and heights of various colors as close to one another as possible. A good uniform effect

Prices above 8, each: tr. pkt. (500 seeds), \$1.75; 1/128 oz., \$3.00; 1/64 oz., \$5.70; 1/32 oz., \$10.80; 1/16 oz., \$20.00; 1/8 oz., \$39.00; 1/4 oz., \$74.00.

### ROCKET SNAP SEEDLINGS

Flatted seedlings of the new All-America Rocket Snaps will be available from mid-January on, f.o.b. Illinois. Write our Plant Department for prices.

### IMPORTANT

Extra early sowing (weeks before most annuals are sown), and hardening them off in cold frames before selling is a “must”, if real quality summer Snaps are to be had. Try it this year!

FOR EXTRA PROFITS FROM  
BEDDING PLANT SALES,  
GROW F<sub>1</sub> HYBRID SNAPS  
IN JIFFY-POTS

### NEW F<sub>1</sub> HYBRID ROCKET SNAPS

Rocket Mixture is our Sweet Sixteen Snap for 1960. Try them.





# Outdoor Snaps

FOR SPRING PLANT SALES

## BALL 8 BEST INBRED VARIETIES (TALL)

- **Alaska.** Long-stemmed white.
  - **Canary Bird.** Long-stemmed yellow.
  - **Cattleya.** Rosy lavender.
  - **Cherry Red.** A bright, rosy cerise-red.
  - **Copper Queen.** Shades of bronzy copper.
  - **Crimson (Padre).** Deep crimson.
  - **Pinkie.** Lighter than Rosalie; very fine.
  - **Rosalie.** A rich deep rose.
  - **Improved California Mixture.** Mixture of the best tall varieties.
- Prices above 9, each: tr. pkt. ( $\frac{1}{16}$  oz.), **45c**;  $\frac{1}{4}$  oz., **\$1.25**; 1 oz., **\$3.75**.
- COLLECTION:** We offer one tr. pkt. each of the 8 Best named varieties above for **\$3.35**.

## OTHER VARIETIES

HALF DWARF (Majestic).

**Mixture** (Rust-Resistant). Extra large flowered.  
Tr. pkt. ( $\frac{1}{16}$  oz.), **45c**;  $\frac{1}{4}$  oz., **\$1.25**; 1 oz., **\$3.75**.

DWARF (Nanum Grandiflorum). Compact plants for bedding.

**Black Prince.** Deep velvety crimson.

**Gloria.** Uniformly dwarf, deep rose-pink.

**Golden Queen.** Rich golden yellow.

**Purity.** Large flowered creamy white.

**St. George.** Flashing orange-cerise.

- **Mixture** (Rust-Resistant). All colors. Ideal for bedding.

Prices above 6, each: tr. pkt., **50c**;  $\frac{1}{8}$  oz., **85c**;  $\frac{1}{4}$  oz., **\$1.50**; 1 oz., **\$5.50**.

TOM THUMB. (4 to 6 in.)

- **Magic Carpet.** The uniformly dwarf and compact habit of this superior mixture makes it an excellent bedding and border plant. Try some this year for a pleasant surprise.  
Tr. pkt. ( $\frac{1}{16}$  oz.), **50c**;  $\frac{1}{4}$  oz., **\$1.50**; 1 oz., **\$4.50**.

## VANGUARD (NEW)

**F<sub>1</sub> HYBRID** ALL-AMERICA SELECTION (All-America Winner for 1960). 2 ft. This medium rose-pink with yellow lip is the first F<sub>1</sub> Hybrid double Snapdragon for outdoor use. The florets are fully double, and form well shaped, tapering spikes.  
500 seeds, **\$2.50**;  $\frac{1}{128}$  oz., **\$4.50**;  $\frac{1}{64}$  oz., **\$8.50**.

## TETRAPLOID SNAPS

Tetraploid Snaps or "Tetras" have larger florets with thicker petals and foliage than the ordinary kind. Under good growing conditions really outstanding spikes can be developed. Medium tall.

**Crimson.** Bright crimson-red.

**Pink.** Salmon-pink; huge florets.

**Rose.** Bright rose.

**White.** Light creamy white, changing to pure white with age.

**Yellow.** Clear yellow; long spikes and large flowers.

Prices above 5, each: tr. pkt. ( $\frac{1}{32}$  oz.), **50c**;  $\frac{1}{16}$  oz., **95c**;  $\frac{1}{4}$  oz., **\$2.75**; 1 oz., **\$8.25**.

- **Giant Ruffled "Tetra" Mixture** of all colors.  
Tr. pkt. ( $\frac{1}{32}$  oz.), **40c**;  $\frac{1}{16}$  oz., **75c**;  $\frac{1}{4}$  oz., **\$2.25**; 1 oz., **\$6.75**.

## COLOSSAL SNAPS

This inbred strain is extra vigorous, producing strong, long-stemmed spikes of large, well formed florets. One of the best outdoor strains for cutting. *Orig. Seed.*

**White** **Pink** **Orchid** **Yellow** ● **Mixture**  
**Velvet Giant.** Velvety crimson-red.

Prices above 6, each: tr. pkt. ( $\frac{1}{32}$  oz.), **35c**;  $\frac{1}{8}$  oz., **\$1.10**;  $\frac{1}{4}$  oz., **\$2.00**; 1 oz., **\$6.00**.

## "PANORAMA" FORMULA MIXTURE

A bright mixture produced from F<sub>1</sub> Hybrid parents, representing the F<sub>2</sub> or second generation. Possesses some of the desirable vigor of a true F<sub>1</sub> Hybrid, but at a lower seed cost.  
Tr. pkt. ( $\frac{1}{32}$  oz.), **60c**;  $\frac{1}{16}$  oz., **\$1.00**;  $\frac{1}{4}$  oz., **\$3.00**; 1 oz., **\$9.00**.

# YEAR ROUND GREENHOUSE (Forcing) SNAPS

Proper selection of varieties is vitally important in year 'round Snap schedules. We recommend no less than seven changes of varieties in a 12 month period. Each group has a different response to temperature and light, from the summer hybrids that tolerate extreme heat and strong light, to midwinter types that will produce quality stems in the shortest period of time during dull weather. The result is a surprising uniformity of quality.

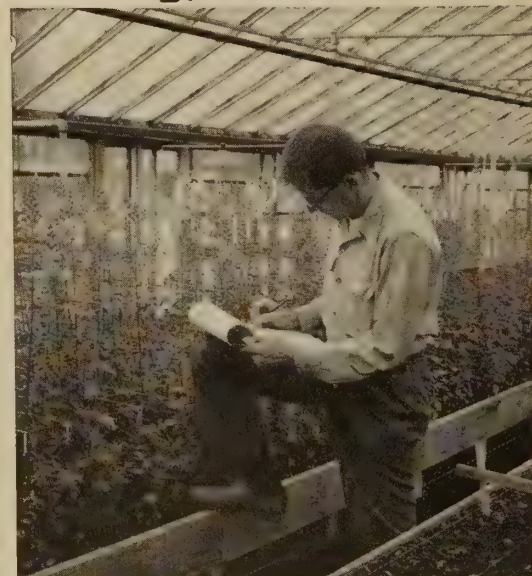
Winter Snaps on raised benches do take as long as 5½ months to flower, compared to a little under 3 months with summer hybrids. But if this appears slow try *summer* Snaps in the winter—completely vegetative until June no matter how early they are sown. So improved winter varieties do keep production time down to a minimum.

In fact, when seedlings are Jiffy-Potted for six weeks, you can keep a crop coming every four months from the same bench in the dead of winter. This is the basis for steady production of three crops a year.

What is the advantage of having steady year 'round Snaps? Mainly, no fluctuations in production. Extra summer production is hard to move, and any drop in winter Snaps hurts when the market is at its best. The steady producer can line up standing orders for much of his crop, like the year 'round Mum growers do, and avoid the "hassle" of seasonal selling with its gluts, scarcities and wide price fluctuations.

But what about the good January-February market, you say? Can't I grow extra Snaps when the price is so solid? One attractive way to lick this problem is to use extra benches for one winter crop, over and above the year 'round program. These can be benched in late summer, cleared in time to finish Lilies, Hydrangeas, Azaleas, late bulbs, and other pot crops, and then filled with bedding plants in the spring.

We said that varieties were the heart of the year 'round Snaps, and here is what we meant. This is the latest dope we have on the best for each season in the north (Montana, Nebraska, Iowa, Central Illinois, Central Indiana, Ohio, Pennsylvania, New Jersey and north).



**Year 'round Snaps!** A surprising number of both retail and wholesale growers are now flowering Snaps year 'round—just like Mums. The typical comment: "We need Snaps every month, why not plan to have a new bench come in twice a month?" Result: Our new Snap Planning Service—to assist growers in scheduling—and in selection of correct varieties for each season. Here's a view of our year 'round trials—3 crops a year per bench, by the way.



# YEAR ROUND SNAPS

(Continued from previous page)

*Geo. J. Ball*  
INC.

## RECOMMENDED VARIETIES FOR THE NORTH

Variety names in *italics* indicate our preference.

### DECEMBER-JANUARY (M. W.) FLOWERING

WHITE	<i>White Knight, Citation, Sierra</i>
YELLOW	<i>Doubloon, War Admiral</i>
PINK	<i>Wintergreen, Pink Ice, Spanish Lady</i>
ROSE	<i>New Times</i>
RED	<i>Cherokee</i>
LAVENDER	<i>Esquire, Bold Venture</i>

### FEBRUARY-EARLY APRIL (E. SP.) FLOWERING

WHITE	<i>Snowman, Citation, Twenty Grand, Albion</i>
YELLOW	<i>Doubloon, Seabiscuit, Patricia, Broker's Tip</i>
BRONZE	<i>Barbara, Cavalcade, Gallant Fox</i>
PINK	<i>Spanish Lady, Native Dancer, Pink Ice, Christina, Hercules (April only)</i>
ROSE	<i>Flower Girl, Treasure Chest, Jackpot, Rosanna</i>
RED	<i>Cherokee (February only), Navajo</i>
LAVENDER	<i>Lavender Lady</i>

### MID-APRIL-MAY (L. SP.) FLOWERING

WHITE	<i>Albion, Twenty Grand, Apollo</i>
YELLOW	<i>Golden Spike, Seabiscuit</i>
BRONZE	<i>Indian Chief, Barbara</i>
PINK	<i>Hercules</i>
ROSE	<i>Showgirl, Treasure Chest</i>
RED	<i>Navajo</i>
LAVENDER	<i>Lavender Lady</i>

### LATE MAY AND JUNE (E. SU.) FLOWERING

WHITE	<i>June Bride, White Skies, Potomac White</i>
YELLOW	<i>Potomac Yellow, Dark Star</i>
PINK	<i>Potomac Pink, Gaytime, Summer Jewel</i>
RED	<i>Navajo</i>

### JULY-EARLY SEPTEMBER (M. SU.) FLOWERING

WHITE	<i>*Crystal White, White Skies</i>
YELLOW	<i>*Summer Yellow, Dark Star</i>
PINK	<i>*Summer Pink, Gaytime, Summer Jewel</i>

\*Rockwood varieties will be about a week later than the schedule (below at right) shows.

### MID-SEPTEMBER-OCTOBER (E. F.) FLOWERING

Same as late May-June.

### NOVEMBER (L. F.) FLOWERING

WHITE	<i>Albion, Twenty Grand, Apollo</i>
YELLOW	<i>Seabiscuit</i>
PINK	<i>Native Dancer, Hercules, Spanish Lady</i>
ROSE	<i>Showgirl, Treasure Chest</i>
BRONZE	<i>Barbara</i>
RED	<i>Navajo (late)</i>

**FOR MORE SOUTHERN REGIONS**, the varieties remain the same but seasons in which they are used change. To cite an example, for the Atlanta vicinity we would recommend the mid-April and May group for the entire winter, December through April. Some southern growers also use February-early April varieties in this period. During May and half of June, we'd suggest June Bride and the Potomac varieties. The summer group would be carried from June 15 through early October, and then back to the June Bride-Potomac group from mid-October through November.

## BRIEFS ON SNAP CULTURE

### Soil

Good Snaps can be grown in a wide variety of soils. As a general rule any soil that will grow good Mums will grow good Snaps. The really important point is that it contain **plenty** of organic matter. While this may take the form of manure, be sure it is well rotted. As a matter of fact, peat is generally preferred because it is more uniform.

The amount of organic matter which a soil needs depends upon its basic structure. Heavy, clay-like soils will need more than loose, sandy sorts. If an average good garden or field soil is to be used, one part of organic matter should be incorporated with each two or three parts soil. To this should be added three pounds of 20% superphosphate per 100 square feet of bench area before steaming. Other than this we prefer to depend upon regular feedings as soil tests indicate their need rather than to load the soil with too much fertilizer to start with.

### Sterilizing

We like to steam sterilize our soil before benching, too. It cleans up disease organisms, kills soil-borne weed seeds and insects and tends to improve the soil's physical condition. Low (8 to 10 lbs.) steam pressure does the job for us. Holding soil temperatures at 180° for half an hour after this temperature has been reached is all it takes. After sterilizing, a heavy leaching with clear water will tend to prevent an excessive build-up of nitrates which might injure young roots.

### Seed Sowing

Vermiculite, peat, or soil and peat mixture all make satisfactory materials for germinating Snap seed. We like to have the flats well watered before sowing, which may be done either broadcast or in shallow rows. We prefer the latter since it permits better aeration after the seedlings get started. No additional soil covering is needed for this fine seed—a light misting with a fine spray will settle it into the soil. If weather is hot or windy, flats should be protected with Plasticovers or paper shade until well up, then they will enjoy full light and a cooler, airy location. Seeds should germinate in 3 or 4 days in summer, 7 or 8 days in winter in a night temperature of 60-65°.

### Planting

If bench space is available, we like to bench seedlings direct—less labor and better growth. It works nicely even in hot weather, if the soil is moist before benching, seedlings are planted shallow, and misted within minutes of benching and regularly until new roots show.

In regard to the matter of spacing, we believe 3x6 inches is the most economical and profitable for a winter single stem crop with 3x5 inches being enough for late spring and summer crops. We space our pinched crops 7x8 inches, finding this satisfactory for most varieties. If you are obliged to transplant, band or pot seedlings, do not pinch them until plants have been benched and have taken hold. To pinch before benching will usually result in only two top breaks rather than the four or so that each plant should produce. We like to pinch when plants are about 8 inches high, leaving 3 good pairs of leaves.

### Temperature

Normal during firing season: nights 50°, cloudy days 57°, sunny days 65°.

### Sowing Dates

The dates given here are intended as suggestions only—based on our experience here in the Midwest.

#### SINGLE STEM

Sow	Flower	Sow	Flower
Aug. 20	Jan. 15	April 15	July 15
Sept. 5	Feb. 15	May 20	Aug. 15
Sept. 25	Mar. 15	June 20	Sept. 15
Oct. 20	April 15	July 15	Oct. 15
Dec. 20	May 15	July 25	Nov. 15
Feb. 15	June 15	Aug. 10	Dec. 15

#### PINCHED CROPS

Wait till breaks are at least an inch long in leaf axils—plant usually about 8 inches high—then pinch to leave 3 pairs of leaves.

Sow	Flower	Sow	Flower
July 20	Mid-Dec.	Sept 5	Early March
Aug. 1	Mid-Jan.	Sept. 25	Early April
Aug. 20	Mid-Feb.	Nov. 20	Mid-May

## OUR SNAP PLANNING SERVICE

If you are interested in year 'round Snaps write us, giving the size and number of beds you wish to schedule for year 'round production. We will do the rest—plan the correct varieties for each season, sowing dates, spacing, culture, and amounts of seed required—and send you a complete schedule. Then upon receipt of your O.K., seeds for your first rotation will be sent, and as each new rotation comes up new seed will arrive fresh from our controlled-environment storage. Changes in the schedule may be made at any time, and we will notify you when your current program is nearing completion.

We will also be happy to offer scheduling and cultural advice for special crops not on a year 'round program.

This Snap Planning Service is one function of our GROWER SERVICE DEPARTMENT, created to serve you better. The trained personnel in our Grower Service Department will be glad to offer their assistance with any of your cultural problems. Write this department if you have any questions.



# Ball COLUMN Stocks

(NON-BRANCHING)

**ANNUAL** (*Mathiola incana*)

16,000 S. 2 weeks 65-75°

The most important points in growing good greenhouse Stocks are: (1) plant only in clean soil to avoid root rot; (2) grow them cool—not over 50° nights. A spacing of 3x6 inches is ample for good quality and they may be safely sown in our latitude from July 15 to February 15. Later sowings may come blind. Constant breeding and selection maintain a uniformly high percentage of doubles in our strains, which may be further increased if the largest seedlings are selected in planting or thinning.

Our "6 BEST" greenhouse varieties are dotted (●)

## WHITE

**No. 25 Minaret.** This fine white combines the close-spaced spike of No. 16 with a larger, longer stem which makes it quite valuable to cut-flower growers. *Ball Orig. Seed.*

**WHITE GODDESS (NEW).** An improvement over Pacific White. Between Ball White No. 16 and Avalanche in season.

● **No. 16 Ball White—Medium tall.** This early pure white is the most popular variety on our entire list. *Ball Orig. Seed.*

**White Giant.** Good long-stemmed white for outdoor growing. We prefer our No. 16 Ball White for greenhouse use.

**Gardenia Imp.** Pure white. Branches somewhat. A fine outdoor strain.

**Avalanche.** Finest white for outdoor growing; also excellent for greenhouse use although later than No. 16.

## LAVENDER, BLUE and PURPLE

● **No. 1 Lilac-Lavender Improved.** Early blooming, silvery lilac. Good stems with long flower spikes. *Ball Orig. Seed.*

**No. 3 Ball Blue Improved.** Deep bluish lavender; long spikes. *Ball Orig. Seed.*

● **No. 21 Purple Heart.** Long-stemmed and large-flowered, bright violet-purple. *Ball Orig. Seed.*

## PINK, ROSE and RED

**Pacific Pink.** A bright, luminous salmon-rose-pink without the bluish or orchid cast of other pinks and roses. Somewhat later than most Column Stocks, and is at its best in spring.

● **No. 22 Ball Supreme.** A long-stemmed, vigorous growing variety with fine, heavy spikes of rich silvery rose. *Ball Orig. Seed.*

**No. 11 Ball Pink.** A medium pink; somewhat lighter than No. 22. *Ball Orig. Seed.*

**No. 14 Ball Rose.** An early flowering, fairly deep rose-pink. Darker in color than Supreme No. 22. *Ball Orig. Seed.*

**No. 9 Chamois-Pink.** A warm rosy buff color. Good stems and flower spikes. *Ball Orig. Seed.*

**No. 7 Malmaison Pink, Improved.** Long stems and spikes of soft shell-pink. A popular color. *Ball Orig. Seed.*

**No. 6 American Beauty.** Rich deep carmine-rose. *Ball Orig. Seed.*

● **No. 8 Ruby Improved.** A brilliant scarlet-crimson without the purple cast of other reds. *Ball Orig. Seed.*

**U.S.D.A. Double Pink.** Improves the Hansen dark-leaved single, light-leaved double strain. Light-leaved doubles may be selected in seedling stage. In our greenhouse trials stem length was greater than Hansen's but not as long as regular Columns. Doubles retain some light leaf color in blooming stage.

## MISCELLANEOUS VARIETIES

● **No. 20 Ball Apricot.** Long spikes of rich apricot tinged pink. *Ball Orig. Seed.*

**No. 24 Deep Apricot Improved.** Darker than No. 20. *Ball Orig. Seed.*

**No. 17 Gold Standard.** Creamy ivory-yellow. *Ball Orig. Seed.*

**No. 26 Butterscotch.** This fine, creamy yellow is a definite improvement over present strains in stem length, flower size and color. *Ball Orig. Seed.*

**No. 10 Mixture.** Our own formula mixture. *Ball Orig. Seed.*

**Prices** all above Non-Branching Stocks, each: ½ tr. pkt., 75c; tr. pkt., \$1.25; ¼ oz., \$2.75; ½ oz., \$5.25; 1 oz., \$10.00.

**COLLECTION:** 1 tr. pkt. each of the 6 Best (dotted) varieties, for \$6.75.

# BRANCHING STOCKS

## ALL-DOUBLE SELECT STOCKS

Light leaved doubles and dark leaved singles—apparent in the seedling stage at 50°—provide a positive means of separating singles from doubles in this strain.

### BRANCHING

**Dwarf Park Mixture.** A dwarf branching type of the All-Double Select Stocks. For outdoor bedding in cooler temperatures. Tr. pkt., 75c; ¼ oz., \$1.20; ½ oz., \$4.00; 1 oz., \$12.00.

## GIANTS OF CALIFORNIA (Improved Bismarcks)

**Apple Blossom.** Pale pink.

**Blood-Red.** Ruby-red.

**Chamois.** Chamois or buff.

**Elk's Pride.** Rich purple.

**Santa Maria.** Best white.

**Golden Ball.** Ivory-yellow.

**Lavender.** Lilac-lavender.

**Rose.** Bright rose-pink.

**Formula Mixture** of above colors.

**Prices** above 9; each: tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$4.00.

## TRYSONIC HI-DOUBLE STOCKS

An unusual race of branching Stocks which makes use of scientific plant breeding principles to produce 80-85% double flowering plants.

**Chamois.** Buff-pink    **Canary-Yellow**    **Fiery Red**    **Bright Rose**  
**Lilac-Lavender**    **Navy-Blue**    **White**    **Trysonic Hi-Double Mix.**

**Prices** above 8, each: ½ tr. pkt., \$1.00; tr. pkt., \$1.75; ⅛ oz., \$2.90; ¼ oz., \$5.00.

## TRYSONIC 7-WEEK MIXTURE

1 ft. Blooms outdoors during hottest weather. Complete color range.  
½ tr. pkt., \$1.00; tr. pkt., \$1.75; ⅛ oz., \$2.90; ¼ oz., \$5.00;  
1 oz., \$18.00.

## DWARF TEN WEEK

Makes very attractive pot plants.

**Blood-Red**    **Lavender**    **Canary-Yellow**    **Deep Rose**  
**Purple**    **White**    **Formula Mixture**

**Prices** above 7, each: tr. pkt., 30c; ¼ oz., \$1.00; 1 oz., \$3.00.

## NEW STATICE STRAIN (See page 49)



This strain will give a real boost to the popularity of this everlasting flower.

**American Beauty**  
**Roselight**  
**Apricot Pastel**  
**Tones**  
**Gold Coast**  
**Twilight**  
**Lavender**  
**Midnight Blue**  
**Iceberg**  
**Blue Bonnet**

Each: ¼ oz., 50c;  
1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$15.00.

**COLLECTION:** ¼ oz. each of above 8, \$3.60.



# Ball Sweet Peas

ANNUAL (*Lathyrus odoratus*)

350 S. 2 weeks 65-75°

## WINTER PEAS

### STANDARD WINTER VARIETIES

These varieties are at their best during winter and early spring from a July to September sowing. While we prefer the Spring Flowering for late greenhouse planting, the Winter Class does flower earlier and in some sections is preferred, even for outdoor planting. The 12 best varieties are indicated by a (●).

#### PINK, ROSE and SALMON

- **Ball Rose Queen.** Clear rose-pink.
- **Ball Rose Supreme.** Silvery rose.
- **Ball Salmon.** Medium salmon.
- **Daphne.** Soft salmon-pink.
- **Hiawatha.** Deep rose.

#### ORANGE and RED

- **Ball Orange Supreme.** Clear orange.
- **Fiesta.** Brilliant scarlet-cerise.
- **Treasure Island.** Cerise-orange.

- **12 Best Mixture.** Our own formula mixture of the 12 Best (dotted) varieties.

Prices above 16, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb. \$6.00.

#### WHITE

- **Cascade.** White-seeded white.
- **Hope.** Black-seeded white.

#### LAVENDER, BLUE and PURPLE

- **Ball Blue Supreme.** Rich mid-blue.
- **Harmony.** Early lavender.
- **Rhapsody.** Deep rosy lavender.
- **Triumph.** Rich lilac-mauve.
- **Twilight.** Clear lavender.

### ZVOLANEK'S MULTIFLORAS

*Originator's Seed*

These fine varieties are the result of years of painstaking selection on the part of William Zvolanek, veteran California Sweet Pea breeder. They are unusually free-flowering and **long-stemmed**, with many stems carrying **5 and 6 flowers** instead of the usual 3 and 4. Sow from mid-July through November for blooms November through May.

- **Blue Wonder.** Clear, medium blue.
- **Deep Rose.** Deep, bright rose.
- **Geo. J. Ball.** Deep coral-rose.
- **Giant Lilac.** Bright mauve.
- **Lavender.** Orchid-lavender.
- **Light rose-Pink.** Flesh-pink.
- **Orange-Cerise.** Bright and striking.

- **Red.** Christmas-red.
- **Rose.** Medium rose.
- **Salmon-Pink.** Large flowers.
- **Whirlwind.** Light rose.
- **White.** Pure white.
- **Multiflora Mixture.** A complete color assortment.

Prices above 13 varieties, each: ½ oz., 85c; 1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$16.00.

## SPRING PEAS

### CUTHBERTSON STRAIN (*Originator's Seed*)

This class is midway in blooming date between the Winter and Summer types, and is the preferred kind for spring greenhouse flowering. Don't sow before October for this purpose. They are also widely planted for outdoor use, being a week or two earlier than the Summer class and more heat resistant.

- **Billy.** Bright cerise-rose on salmon; very showy.
- **Carol.** Attractive clear pink on white ground; salmon shading.
- **Evelyn.** Soft salmon-pink.
- **Lois.** Light rose-pink, similar in color to Ball Rose Queen.
- **Jimmy.** Rich, deep cherry-red.
- **Frank G.** Fine soft rosy lavender. One of the best.
- **Tommy.** Clear mid-blue. A popular commercial color.
- **Daisy.** Large frilled white; black seeded.
- **Mixture.** Balanced according to demand for each color.

Prices above 9 Cuthbertson varieties, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$5.00.

### DWARF SWEET PEAS

**Little Sweethearts Mixture.** Plants are upright and form rounded bushes about 8 in. high covered with large flowers in all shades. Needs no support and is suitable for borders or bedding. *Originator's Seed.*

¼ oz., 85c; 1 oz., \$2.50; 4 ozs., \$7.50.

### ZVOLANEK'S FLORIBUNDAS

*Originator's Seed*

Developed from the outstanding Multifloras, the Floribunda Class is a spring-flowering Sweet Pea. It branches freely with long, strong stems, as many as 6 and 7 blooms, and has other fine characteristics of the Multiflora line. Our trials definitely indicate that the Floribundas are superior to other strains for spring greenhouse or outdoor use in our locality.

- |                     |                       |                  |
|---------------------|-----------------------|------------------|
| ● <b>Pure White</b> | ● <b>Lavender</b>     | ● <b>Scarlet</b> |
| ● <b>Rose-Pink</b>  | ● <b>Mid-Blue</b>     | ● <b>Lilac</b>   |
| ● <b>Light Pink</b> | ● <b>Carmine-Rose</b> | ● <b>Mixture</b> |

Prices above 9, each: ½ oz., 70c; 1 oz., \$1.25; 4 ozs., \$4.50; 1 lb., \$14.00.

## SUMMER PEAS

The standard class for outdoor use. Sow in bands or pots in late winter. Grow cold after germination and plant out in early spring as soon as soil can be worked.

- **Ball Shrimp-Pink.** A pleasing soft shrimp-pink.
- **Pinkie.** Finest large flowered rose-pink.
- **Welcome.** An intense sun-proof scarlet.
- **Snow White.** The best clear white; black-seeded.
- **King Lavender.** Exceptionally clear even lavender.
- **Windsor Blue.** A supremely fine mid-blue.
- **Ball Best Mixture.** Composed only of the best varieties.

Prices all above Summer Peas, each: ½ oz., 25c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.00.



### ● VERBENA, IDEAL FLORIST STRAIN

Low growing, but spreading in habit with large flowers in an extremely wide range of unusual colors—many attractive light eyes. Early and free flowering. Fine for flat sales.

Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

SEE PAGE 58 FOR OTHER VERBENAS





## THERMOPSIS

**PERENNIAL** (*T. caroliniana*) 6500 S. Frost germinator  
**Caroliniana.** 3 to 5 ft. Long panicles of yellow, Pea-shaped flowers.  
Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.35.

## THUNBERGIA

**ANNUAL** (*T. species*) S. See below 2-3 weeks 65-75°

● **Alata** (Black-Eyed Susan). 1100 S. Excellent used as a climber or as a trailing plant for porch boxes and urns. Makes a dense growth producing an abundance of flowers in shades of yellow, buff and orange—some with black centers or “eyes.”  
Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$1.80.

**Gibsoni.** 500 S. Flowers of a solid, deep orange are twice the size of Alata. 100 seeds, \$1.75; 1000 seeds, \$15.00.

## TITHONIA

**ANNUAL** (*T. rotundifolia*) 3500 S. 2-3 weeks 65-75°

**Torch.** 3 ft. Single, bright orange-scarlet flowers with yellow discs are carried on erect, bushy plants. Makes a good cut flower. Stands heat well. Tr. pkt., 40c; ¼ oz., \$1.50; 1 oz., \$4.50.

**Tobacco Plant.** See Nicotiana, page 31.

## TORENIA

**ANNUAL** (*T. Fournieri*) 375,000 S. 2 weeks 65-75°

An excellent plant for spring combination use or for bedding in semi-shade and shade. Sow several weeks ahead of other bedding plants.

● **Fournieri Grandiflora.** 12 in. Rich, deep blue with violet and yellow blotch on lip. See photo below.

**Fournieri Compacta, Blue.** 8 in. A dwarf form of the above.

**Fournieri Compacta, White.** 8 in. Dwarf white.

Prices above 3, each: tr. pkt., 40c; ⅛ oz., \$1.25; ¼ oz., \$2.25.

## TRITOMA (Red Hot Poker)

(*Kniphofia Uvaria*) 20,000 S. 3-4 weeks 65-75°

3 to 4 ft. Attractive long spikes from late summer until frost. Dig and store roots over winter in North.

● **Pfitzer's Red.** Large brilliant red. *Orig. Seed.* Tr. pkt. (⅛ oz.), 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

**Mirabilis.** Yellow and orange shades. Tr. pkt., 45c; ¼ oz., 80c; 1 oz., \$2.40.

## TROLLIUS (Globe Flower)

(*T. species*) 30,000 S.

Allow seed to stand outdoors over winter for good germination or soak in hot water 30 minutes before sowing. Plants require moist soil.

**Ledebouri, Orange.** 2 ft. The standard variety.  
Tr. pkt., 60c; ⅛ oz., \$1.25; ⅛ oz., \$2.25.

**Mixture.** Beautiful variations in both form and shades.  
Tr. pkt., 40c; ⅛ oz., \$1.50; ¼ oz., \$2.70.



**TORENIA FOURNIERI GRANDIFLORA**  
Fine for spring combinations or bedding in shady areas.



**VERBENA,  
TORRID**  
Deep red with white  
eye. Heat resistant.

## VERBENAS

**ANNUAL** (*V. hortensis*) 10,000 S. 3-4 weeks 65-75°

One of the most colorful and showy plants for bedding, window boxes or combinations. Seed should be sown in a soil temperature of 65° to hasten germination which is sometimes slow. Once established, 50° nights suits them nicely, but be sure to pinch the taller varieties early to avoid straggly growth.

**SPREADING.** Growth is inclined to be procumbent or carpet-like, covering a fairly wide area.

**SPREADING.** 8 to 12 inches.



### ● IDEAL FLORIST STRAIN

Low growing, but spreading in habit with large flowers in an extremely wide range of unusual colors—many attractive light eyes. Early and free flowering. Fine for flat sales. Pictured on page 57. Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

**Calypso.** A novelty blend of striped and blotched types in many bright colors. Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

**Delight.** Coral-pink, suffused salmon. A welcome addition to this increasingly popular class of dwarf Verbenas.

● **Sparkle.** Bright red with white eye.

**Crystal.** Large flowered, snow-white.

**Sparkle Mixture.** Plants of the same type as Sparkle and Crystal in a complete range of colors, mostly with white eyes.

Prices above 4, each: tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

**Splendor.** Deep reddish purple with contrasting white eye.

Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

**SPREADING.** Similar in habit to above varieties, but reaches a spread of 12 inches or more.

### ● TORRID

Deep red with contrasting white eye. Bred in the Middle West for heat resistance, and blooms freely under trying conditions. *Ball Orig. Seed.*

Tr. pkt. (⅛ oz.), 75c; ¼ oz., \$2.00; 1 oz., \$6.00.

● **Defiance.** Scarlet-red with small white eye. The most vigorous and free flowering of all red Verbenas. Stands heat well. Tr. pkt., 45c; ¼ oz., \$1.25; 1 oz., \$3.75.

● **Beauty of Oxford.** Extra large flowers, ranging from clear rose-pink to deep rose-red, all with slight white eye.

**Dannebrog.** Very attractive bright scarlet with large white eye.

**Ellen Willmott.** Extra large, salmon-pink.

**Lavender Glory.** Very fine, large flowered lavender with white eye. About 75% true to type, balance white and purple.

● **Marilyn.** Fiery scarlet-cerise with creamy eye.

**Mayflower.** Shades of pink.

● **Pure White.** Very even strain. Large flowered and vigorous.

● **Royale.** Large flowered, rich, deep blue with eye.

**Spectrum Red.** Very bright rich scarlet with no eye.

● **Sutton's Blue.** Deep royal blue without eye.

● **Mixture** of all colors in the Grandiflora class.

Prices above 11, each: tr. pkt., 45c; ¼ oz., \$1.25; 1 oz., \$3.75.

**UPRIGHT.** Free branching but distinctly bushy and upright in habit rather than spreading.

**UPRIGHT.** Height 4 to 8 inches.

**Fireball.** Bright, fiery scarlet, small flowers.

● **Mixture** of all colors in this compact class.

Prices above 2, each: tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

(Continued on next page)



## VERBENAS, Continued

UPRIGHT. Height 8 to 12 inches.

**Firelight.** A vivid, solid red.

- **Giant Salmon Queen.** Large flowered, bright coral-salmon.

**Starlight.** Large flowers are a rich mid-blue with ivory-white eye. An excellent companion to Salmon Queen.

**Blue Sentinel.** Bright blue with very little violet shading.

**Snowball.** Fine free flowering pure white.

Prices above 5, each: tr. pkt., 55c; ¼ oz., \$1.30; 1 oz., \$4.00.

- **Rainbow Mixture.** Semi-dwarf (8 to 10 in.), but upright growing plants in a wide assortment of colors. Its earliness and erect habit make this strain valuable for pots and combination boxes as well as for borders.

- **Royal Bouquet.** 12 to 14 in. A mixture of all colors in this upright type. Stems are long enough for limited cut-flower use.

Prices above 2, each: tr. pkt., 55c; ¼ oz., \$1.65; 1 oz., \$5.00.

### MISCELLANEOUS VARIETIES

**Venosa Lilacina.** 60,000 S. 8 to 10 in. Flowers continuously throughout our hot Midwestern summers. Deep lilac flowers.

Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

## VERONICA (Speedwell)

**PERENNIAL** (*V. spicata*) 250,000 S. 2 weeks 65-75°

**Spicata, Dwarf Blue Shades.** 16 in. Showy, easily grown plants; brightly colored. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$2.70.

## VINCA (Periwinkle)

**ANNUAL** (*V. rosea*) 21,000 S. 2-3 weeks 65-75°

15 in. One of the most generally satisfactory outdoor bedding plants we have. Will stand an almost unbelievable amount of hot, dry weather. Sow early with bottom heat and grow warm.

### COQUETTE

More compact and shapely than the regular Vinca varieties. Coquette will grow only 10 inches tall, is very uniform, and is an ideal bedding plant, because it is tolerant of hot and dry summers. Color is rosy pink with attractive, glossy deep green leaves. Very free flowering and will bloom continuously from Decoration Day till frost if seed is started February 1 with bottom heat.

Tr. pkt., 45c; ¼ oz., \$1.35; 1 oz., \$4.50.

**BRIGHT EYE (NEW).** Of the same ideal dwarf habit as Coquette except for its sparkling white flowers with red eyes.

Tr. pkt. (¼ oz.), 85c; ¼ oz., \$2.50; 1 oz., \$7.50.

- **Twinkles.** Soft pink; red eye. **Alba Pura.** Pure white.
- **Pink.** Medium pink. **Alba Oculata.** White; red eye.

**Crimson**

**Mixture**

Prices above 6, each: tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

**Rose Carpet.** Has all the good bedding plant qualities of the regular rose-pink Vinca, but the plants are dwarf and spreading rather than upright. Under good conditions each plant will cover the ground for about 2 feet. Also useful as a trailing plant in boxes or baskets.

Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.



VINCA,  
COQUETTE (right)  
and TWINKLES

Note comparison of  
habit between Vinca  
Rosea Twinkles (tall)  
and Coquette.

## VIOLA, BLUE ELF

Three-colored blooms of deep violet, light blue and gold are freely produced on low-growing plants.



## VIOLA

**PERENNIAL** (*V. cornuta*) 24,000 S. 2-3 weeks 65-75°  
8 in. Miniature Pansies. Extra free flowering and effectively used for bedding. Perfectly hardy.

**Firmament.** Free blooming, clear sky-blue.

**Jersey Gem.** Deep orchid; large flowered and attractive.

Prices above 2, each: tr. pkt., 60c; ¼ oz., \$1.10; ½ oz., \$2.00; 1 oz., \$6.00.

- **Arkwright Ruby.** Maroon with dark center. Bright color.
- **Blue Perfection.** Large flowered clear medium blue.
- **Chantreyland.** Extra large flowered true apricot.
- **Lutea Splendens.** Clear golden yellow.
- **Papilio.** Blue and white combinations. Extra dwarf and free flowering.
- **Puck.** Yellow and purple.
- **White Perfection.** Small pure white.
- **Scottish Mixture.** Mostly solid colors in shades of white, yellow, blue and purple. Larger blooms than our Large Flowered Mixture.
- **Large-Flowered Mixture.** Mixture of large-flowered varieties.

Prices above 9 varieties, each: tr. pkt., 60c; ¼ oz., \$1.10; ½ oz., \$2.00; 1 oz., \$6.00.

## "JUMP-UPS"

43,000 S. These small, but free flowering Violas make excellent bedding and rock garden plants, blooming continuously from early spring to late fall.

**Black Imp** (Nigra). Small, velvety, coal-black flowers.

- **Blue Elf** (Improved Johnny-Jump-Up). Three-colored blooms of deep violet, light blue and gold are freely produced on low-growing plants.

- **Helen Mount.** A richly colored combination of violet, lavender and canary-yellow. Very free-flowering with narrow bushy foliage.

**King Henry.** Rich violet-blue with lavender center; yellow eye.

Prices above 4, each: tr. pkt., 60c; ¼ oz., \$1.35; ½ oz., \$2.50; 1 oz., \$7.50.

**ODORATA.** 9000 S. The popular fragrant "English Violet."

**Semperflorens.** Deep blue.

Tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.00.

## WALLFLOWER

**ANNUAL** (*Erysimum*) 14,000 S. 2 weeks 65-75°

2½ ft. Good bedding plant in cool climates. Also cuts. Sow in December and grow in shallow soil (flats are fine) spaced 4x4 for spring cutting.

**Gold Standard.** Richly fragrant deep golden yellow flowers borne in spikes. Tr. pkt., 65c; ¼ oz., \$2.25; 1 oz., \$6.50.

**Perennial Wallflower.** See Cheiranthus, page 16.

## YUCCA (Spanish Bayonet)

**PERENNIAL** (*Y. aloifolia*). 1800 S. Frost germinator

**Hardy Varieties, Mixture.** Striking plants of exotic appearance. Many varieties are included in this blend.

Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.



## DAHLIA-FLOWERED or GIANT MAMMOTH (2-3 ft.)

### WHITE and CREAM

- Isabellina. Creamy yellow.
- Purity (Polar Bear). The best white in large-flowered Zinnias.

### YELLOW and GOLDEN

- Canary Bird (Daffodil Imp.) A bright, clear canary-yellow.
- Golden Dawn (Golden Queen). Clear golden yellow. Extra large flowers.
- Oriole (Orange King). Orange and gold.

### LAVENDER and PURPLE

- Dream (Lavender Queen). An attractive lavender.
- Purple Prince (Violet Queen). Deep purple; large-flowered.

### PINK and ROSE

- Pink Lady. An unusual bicolor variety with a shrimp-pink center and creamy buff outer petals. Tr. pkt., 85c; 1/8 oz., \$1.40; 1/4 oz., \$2.50; 1 oz., \$7.50.
- Exquisite (Enchantress). Fine, light rose with deep cerise center.
- Illumination (Rose Queen). Deep rose, dark center. Darker than Exquisite.
- Luminosa (Brightness). Bright pink suffused with salmon.
- Miss Willmott. Pleasing soft pastel pink.
- Salmon Queen (Eldorado). Luminous salmon-rose.

### RED and SCARLET

- Cherry Queen. Brilliant cherry-rose.
- Crimson Monarch. Large-flowered, deep crimson-red.
- Meteor. Rich, deep amaranth-red. A striking color.
- Scarlet Flame (Will Rogers, Scarlet Queen). Bright scarlet.

### MIXTURES

#### ● GOLD MEDAL MIXTURE



We believe this is the finest complete mixture of large-flowered Zinnias available. This is not a field-grown mixture, but it is carefully blended by formula from first class cut-flower colors and varieties in direct proportions to their commercial value.

- Indian Summer Mixture. Bright reds, yellows and oranges predominate to make this fine assortment of "Indian Summer" colors.
- Pastel Shades Mixture. A formula mixture of the lighter colors in the large-flowered class.
- Giant Mammoth Mixture. A balanced mixture of all Giant Mammoth varieties.
- Prices all Dahlia-Flowered Zinnias (except Pink Lady), each: tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$15.00.
- COLLECTION: We offer a collection consisting of 1 tr. pkt. each of the above named varieties (except Pink Lady). 16 pkts. for \$4.30.

## GIANT CACTUS

2 to 3 ft. This class, with its large curled and ruffled petals is becoming more popular each year.

**CHERRY TIME (NEW).** Large, ruffled flowers in shades of cerise and cherry-red.

Tr. pkt. (1/16 oz.), 85c; 1/8 oz., \$1.40; 1/4 oz., \$2.50; 1 oz., \$7.50.

**LILAC TIME (NEW).** Large, Cactus-type flowers in shades of lavender.

Tr. pkt. (1/16 oz.), 85c; 1/8 oz., \$1.40; 1/4 oz., \$2.50; 1 oz., \$7.50.

- Ice Cream. A completely different color in Zinnias. A rich, full bodied cream—not a light yellow. Blends with all other colors. Large, fully double flowers with ruffled petals.

Tr. pkt., 50c; 1/4 oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.

**Apricot.** Large double flowers of coral suffused apricot.  
Tr. pkt., 50c; 1/4 oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.

### DAHLIA-FLOWERED ZINNIAS

Zinnias, Dahlia-Flowered varieties in order as they appear at left: Canary Bird, Purple Prince, Polar Bear, Illumination and Scarlet Flame. Our Gold Medal Mixture contains these and many other fine Zinnia colors.

- Blaze. ALL-AMERICA SELECTION A brilliant combination of fiery mandarin-red and scarlet-orange. Unique and distinct. Tr. pkt., 50c; 1/4 oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.
- Eskimo. Large, loosely ruffled flowers open creamy white, turning a clear white with age.
- Floradale Scarlet. Large, fully double scarlet flowers.
- Riverside Beauty. Large, double, soft coral-rose color.
- Sunny Boy. Large buttercup-yellow flowers.

### ● CACTUS FLOWERED MIXTURE

One of our finest Zinnia blends. Extra large, fully double flowers with large ruffled petals. A nicely balanced mixture of colors.

- Treasure Island. This new strain is an F<sub>1</sub> with hybrid vigor and large, fluffy, informal flowers up to 7 inches across in shades of red, orange and yellow. About 3 feet tall.
- Prices last 6, each: tr. pkt., 40c; 1/4 oz., 75c; 1 oz., \$2.50; 4 ozs., \$7.50.



GIANT CACTUS (Above)





# Zinnias

2500-4000 S. 1-2 weeks 65-75°

## LILLIPUTS

18 in. Flowers about 2 inches across.

- **Canary Gem**
- Crimson Gem**
- Golden Gem**
- **Pink Gem**
- **Lilac Gem**

- Purple Gem**
- **Salmon Gem**
- **Scarlet Gem**
- White Gem**
- **Rosebud**

### ● FORMULA MIXTURE

Popular mixture of all colors in the Lilliput class. Pictured at right.

Prices above 11, each: tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$15.00.

**COLLECTION:** Tr. pkt. of each of the 10 named Lilliput varieties for \$2.70.

## CUPIDS

Dwarf, 12-in. plants producing large numbers of small double (1-in.) flowers. Fine for borders and rock gardens.

**Goblin.** Bronzy orange.

**Pixie.** Deep yellow.

**Snowdrop.** Pure white.

**Red Riding Hood** (Gracillima). Bright crimson.

### ● Mixture

Prices above 5, each: tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$1.80.

## PUMILAS

"CUT-AND-COME-AGAIN." Between the Giants and Lilliputs in flower size and height.

**Canary-Yellow**

**Salmon-Rose**

**Pinkie.** Soft pink.

**Fireball.** Scarlet.

**Snowball.** White.

**Mixture** of all colors.

Prices above 6, each: tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$15.00.

**Creeping Zinnias.** See Sanvitalia, page 48.

## MISCELLANEOUS VARIETIES

**HALO (NEW).** A Haageana type Zinnia of uniformly dwarf growth, bearing a profusion of 1½-inch, single flowers of dark mahogany-red with a bright contrasting "halo" border of golden yellow. Tr. pkt. (¼ oz.), 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

**Linearis.** A heat-resistant, free-blooming subject for edging and rock garden work. Compact (6-8 in.), early flowering with single, bright orange flowers. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

### ● MERRY-GO-ROUND

*Reselected Orig. Seed.* Cactus and semi-Cactus type flowers, 3 to 4 inches across are borne freely on 12- to 18-inch, dwarf, bushy plants. About half the flowers are sharply bicolored with the outer 1/3 of each petal being in distinct contrast to the petal base. All colors are represented with petals tipped in

white or gold. (Pictured below right). Tr. pkt., 75c; ⅓ oz., \$1.25; ¼ oz., \$2.00; 1 oz., \$6.00.

**Miss Universe.** Deep, full flowers in a complete color range, with a bushier, more compact habit than the taller, weedier, older Zinnias. A "semi-Cactus" type.

Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.

- **Peppermint Stick.** Bright and varied colors in shades of red, white, yellow, pink, orange and purple more than half of which are attractively striped. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.25; 4 ozs., \$7.00.

**Ortho-Polka.** Similar to Peppermint Stick but larger flowered.

Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.25; 4 ozs. \$7.00.

- **Persian Carpet** ALL-AMERICA SELECTION 16 in. Compact plants literally covered with medium small flowers in variegated shades of maroon, gold and orange. Especially valuable for bedding. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

**Fantasy Mixture.** Formula mixture of all colors in this class. The medium sized flowers have informally curled and twisted petals which produce an attractive novelty effect. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

## NOTES ON ZINNIA CULTURE

**For Bedding.** Always popular for their ease of culture and fine, vivid colors. Each year more home gardeners are buying Zinnia plants instead of sowing their own. Because they are rapid growers, seed should not be sown until about a month before your bedding plant selling season starts.

**For Cutting:** Sow direct in warm soil, flowering will begin in 7 or 8 weeks. An outdoor sowing as late as July 1 in our latitude will produce a fine crop of cut Zinnias before frost.

**Warning:** Zinnias need 65° minimum to germinate and grow satisfactorily.



LILLIPUT FORMULA MIXTURE (Above)



PEPPERMINT STICK (Above)

### MERRY-GO-ROUND (Below)

This interesting bicolored Zinnia is included on our Sweet Sixteen list for 1960. An excellent variety which will add much interest to your Zinnia offerings.





# Ball's Superior Vegetable Seeds

Our vegetable seeds are of the same superior quality as our flower seeds. Don't miss out on the increased sale of vegetables this spring. With home building and the sale of home freezers at a national all-time peak, the demand for vegetables for "back-yard" planting should reach a comparable all-time high level. **BE READY! Note that vegetable seeds are postpaid.**



The **Jiffy-Pot** symbol marks the varieties best suited for plant sales. We recommend growing them in **Jiffy-Pots for superior quality and more profit**; however, they may be grown in Veneer Bands, Market-Paks, or other containers listed on pages 102-119.



## BEANS

	4 ozs.	1 lb.	5 lbs.
<b>Bountiful.</b> 47 days. Green bush .....	\$0.30	\$0.90	\$3.00
<b>Golden Wax.</b> 51 days. Yellow bush .....	.30	.90	3.00
<b>Top-Crop.</b> 48 days. Green pencil pod, bush ...	.30	.90	3.00
<b>Burpee's Bush Imp. Lima.</b> 75 days .....	.30	.90	3.00

## BEETS

(1 oz. for 60-ft. row). Sow when ground can be worked and make successive sowings until July. Space rows 18 inches. Broadcast seeds in Ball Bands for plant sale.

	1 oz.	4 ozs.	1 lb.
<b>Detroit Dark Red.</b> (Improved Strain). 60 days ..	\$0.25	\$0.60	\$1.80
<b>Ruby Queen.</b> <b>ALL-AMERICA SELECTION</b> 52 days. Short top; fine color and taste .....	.30	.70	2.10

## BROCCOLI

(About 10,000 seeds per oz.) Sow in March. Space plants 36 x24 in.	1 oz.	4 ozs.	1 lb.
<b>Green Sprouting.</b> Early strain. Valuable all-season "cut and come again" strain for home garden or market .....	\$0.50	\$1.50	\$4.50

## BRUSSELS SPROUTS

(About 7000 seeds per oz.) Sow in March. Space 36x18 in.	1 oz.	4 ozs.	1 lb.
<b>Long Island Imp.</b> 90 days. Stem closely set with 1½-in., round Cabbage-like heads. 20 in. tall, good keeper .....	\$0.60	\$2.00	\$6.00
<b>Jade Cross</b> <b>HYBRID</b> <b>ALL-AMERICA SELECTION</b> The most prolific variety ever produced. ¼ oz., 60c; ½ oz., \$1.80 .....	6.00	20.00	



**F<sub>1</sub> HYBRID  
BRUSSELS SPROUTS,  
JADE CROSS**

## CABBAGE

(Danish Grown)

(About 7000 seeds per oz.) Sow in Feb.-March for the first crop and in June for a fall crop. Space earlies 24x18 in., late 36x20 in.



**CABBAGE, O-S CROSS**

**YELLOWS RESISTANT VARIETIES**  
In order of maturity.

	1 oz.	4 ozs.	1 lb.
<b>Jersey Queen.</b> 63 days. The resistant Jersey Wakefield. Heads are solid, conical .....	\$0.60	\$2.00	\$6.00
<b>Golden Acre Resistant.</b> 65 days. Resistant Golden Acre type. Medium small, round heads .....	.75	2.50	7.50
<b>Marion Market.</b> Heads a little later and larger than Copenhagen Market .....	.60	2.00	6.00
<b>O-S Cross</b> <b>HYBRID</b> <b>ALL-AMERICA SELECTION</b> Very large, midseason variety. Uniform heads. ¼ oz., \$1.25 .....	3.20	10.60	
<b>Wisconsin All-Season.</b> Good winter keeper; large, flat hard heads .....	.60	2.00	6.00
<b>Bugner.</b> 100 days. Round heads; average 10 lbs. 8 inches diameter. Excellent .....	.75	2.50	7.50
<b>Wisconsin No. 8.</b> Resistant Hollander .....	.60	2.00	6.00

## STANDARD VARIETIES

In order of maturity.

	1 oz.	4 ozs.	1 lb.
<b>Copenhagen Market.</b> A very choice strain. Medium sized heads; compact .....	\$0.45	\$1.50	\$4.50
<b>Early Dwarf Flat Dutch.</b> Heads nearly round, firm; fine flavor and high quality .....	.45	1.50	4.50
<b>Late Flat Dutch.</b> Good keeper, firm heads ...	.45	1.50	4.50
<b>Danish Ballhead.</b> Penn State Strain (Short Stem). Best late variety, heads large, flat, solid; keeps until late spring. 105 days .....	.45	1.50	4.50
<b>SAVOY and RED CABBAGE</b>			
<b>Mammoth Rock Red.</b> Best red variety .....	.60	2.00	6.00

## CARROT

(1 oz. for 300-ft. row). Sow as early as the ground can be worked and make successive plantings until Aug. 1st. Space rows 12 to 18 in.

	1 oz.	4 ozs.	1 lb.
<b>Amsterdam Forcing.</b> Roots reddish orange, 6 in., uniformly tapered. Earliest .....	\$0.35	\$1.20	\$3.60
<b>Danvers Half Long.</b> Tapering .....	.30	.90	2.70
<b>Gold Pak.</b> All-America Winner. Long and smooth (8 to 10 inches), bred especially for commercial growers .....	.45	1.40	4.20



## CAULIFLOWER



(About 7000 seeds per oz.) Sow Feb-March. To insure unchecked growth and sure heading, plants should be handled in plant bands or pots. Space 18x24 in.

**Early Snowball "A."** 55 days. Standard early. Fine for greenhouse forcing, frame or outdoor culture.

**Snowball "X."** 65 days. Well adapted for use under a wide range of conditions. Heads large, firm and pure white.

**Snowdrift.** Use Snowball "X."

Prices of above 2, each: tr. pkt. ( $\frac{1}{16}$  oz.), 40c;  $\frac{1}{4}$  oz., 80c; 1 oz., \$2.40; 4 ozs., \$8.00; 1 lb., \$24.00.

## CELERY



(About 8000 plants per oz.) Sow in Feb. or March for plant sales. Cover seeds lightly. Space 6x28 in. Days indicated are from date of planting.

**Golden Yellow Self-Blanching.** Cornell No. 19. Long deeply rounded stalks. Yellows resistant.

**Summer Pascal.** 110 days. Uniform, thick, rounded stalks. Better than Giant Pascal. Crisp, green.

Prices above 2, each:  $\frac{1}{2}$  oz., 85c; 1 oz., \$1.50; 4 ozs., \$5.00.

## CHIVES



(Grass-Onion). A perennial, quickly started from seed. Popular for flavoring and borders.

$\frac{1}{4}$  oz., 30c; 1 oz., 90c; 4 ozs., \$3.00; 1 lb., \$9.00.

## CORN

**Gold Crest.** **HYBRID** 70 days. New, wilt-resistant, high quality, early yellow hybrid. 4 ozs., 40c; 1 lb., 95c; 5 lbs., \$4.00.

**Golden Cross.** **HYBRID** 85 days. 4 ozs., 35c; 1 lb., 85c; 5 lbs., \$3.50.



## GROW VEGETABLES IN JIFFY-POTS

You can get a premium price for well grown vegetables, such as the Pepper at left, in Jiffy-Pots. Your customers find earlier production and vigorous growth of Jiffy-Potted vegetables well worth the extra cost. Plants never wilt in transplanting—never suffer set-back. See pages 108-119.

## CUCUMBER



(About 1000 seeds per oz.) 1 oz. for 80 hills or 200-ft row. Distance between rows 3 to 6 ft.

**Ball Early Hybrid.** **HYBRID** Heavy yielder. Size similar to "Straight 8", color dark green. It is a white spined, slicing type, earlier than Burpee Hybrid. Resistant. Tr. pkt., 50c;  $\frac{1}{4}$  oz., \$1.40; 1 oz., \$4.20; 4 ozs., \$12.50.

**Seedless Supreme.** **HYBRID** Best of the European forcing types. Will outyield any outdoor variety we know. Form 12-14 in. fruits without pollination, is seedless unless pollinated. Dark green, disease-resistant, very prolific when forced in high humidity at 75-85° temperature. 100 seeds, 50c; 1000 seeds, \$4.50.

1 oz. 4 ozs. 1 lb.

**Chicago Pickling.** 6 in. 60 days ..... \$0.25 \$0.85 \$2.50

**Straight 8.** Deep green; early slicer ..... .30 1.00 3.00



CUCUMBER, BALL EARLY HYBRID

## EGGPLANT



(About 6000 seeds per oz.) Sow in February or March for plant sales. Space plants 18x24 in.

**Beauty Hybrid.** **HYBRID** A highly productive F<sub>1</sub>. Fruits slightly smaller than Black Beauty. Midseason. Very firm and of good color.  $\frac{1}{8}$  oz., \$1.40;  $\frac{1}{4}$  oz., \$2.50;  $\frac{1}{2}$  oz., \$4.00; 1 oz., \$7.50.

1 oz. 4 ozs. 1 lb.

**Black Beauty.** Popular market variety. Dark purple. Broad, egg-shaped ..... \$0.60 \$2.00 \$6.00

**Fort Myers Market.** Oval fruits carried well above ground. Quite resistant to disease and excessive heat .....  $\frac{1}{2}$  oz., 45c... .80 2.70 8.00

**New Hampshire Early.** Medium sized, oval fruits bred for northern climate. Prolific .... .85 2.85 8.50

SEE PAGE 66 FOR KOHLRABI, LETTUCE, ETC.

## HERBS



An assortment of Herbs, ready for sale in Ball PlanTrays, makes an ideal merchandising package. Or for the customer who wants to have more of one kind, have flats of 12 or 25 plants of one kind ready. Leaflets describing each variety with collection offers.

Anise Basil Borage Coriander Dill  
Sweet Fennel Savory

Prices above 7, each: tr. pkt., 20c; 1 oz., 60c.

Sweet Marjoram Sage Oregano. "The Pizza Herb."

Prices above 3, each: tr. pkt., 20c;  $\frac{1}{2}$  oz., 60c.

Thyme Rosemary

Prices above 2, each: tr. pkt., 20c;  $\frac{1}{4}$  oz., 60c.

### COLLECTIONS

Tr. pkt. each of above 12 Herbs ..... \$2.00

60c pkt. each of above 12 Herbs (approximately the same number of seeds of each variety) ..... 6.00

See also Chives and Parsley.





# F<sub>1</sub> Hybrid Tomatoes



(About 7000 seeds per oz.) We offer only the highest quality Tomato seeds from specialist growers. Sow seed 6 to 8 weeks before time to plant out. Days indicated are from date plants are set out.

**Ball Extra Early.** 55 days. An F<sub>1</sub> Hybrid earlier than Earliana. Medium fruits, extremely smooth. Bred for highest quality fruit and earliness. Record yields.  
Tr. pkt. ( $\frac{1}{64}$  oz.), \$1.00;  $\frac{1}{16}$  oz., \$2.25;  $\frac{1}{4}$  oz., \$7.50; 1 oz., \$25.00; 4 ozs., \$82.00.

**Ball Giant Hybrid.** 65 days. Early, red, large fruits. It is about two weeks later than our Ball Extra Early.  
Tr. pkt. ( $\frac{1}{64}$  oz.), \$1.00;  $\frac{1}{16}$  oz., \$2.50;  $\frac{1}{4}$  oz., \$8.50;  $\frac{1}{2}$  oz., \$16.00; 1 oz., \$30.00; 4 ozs., \$98.00.

**Burpee Hybrid.** Medium sized; average 8 ounces in weight.  
Tr. pkt. ( $\frac{1}{64}$  oz.), \$1.00;  $\frac{1}{16}$  oz., \$2.00;  $\frac{1}{4}$  oz., \$6.00;  $\frac{1}{2}$  oz., \$11.00; 1 oz., \$21.00; 4 ozs., \$65.00.

**Burpee Big Boy Hybrid®.** 78 days. Fruit to 1 pound. The most popular hybrid Tomato.  
Tr. pkt. ( $\frac{1}{64}$  oz.), \$1.00;  $\frac{1}{16}$  oz., \$2.50;  $\frac{1}{4}$  oz., \$8.50;  $\frac{1}{2}$  oz., \$16.00; 1 oz., \$30.00; 4 ozs., \$98.00.

## TUCKCROSS O, FORCING

(Tucker's Forcing X Ohio WR3). Red fruited. Average size 5 to 7 ounces. One of the line of F<sub>1</sub> Hybrids developed especially for forcing by Prof. Lambeth of Missouri. Fruits are very smooth, meaty. Highly disease resistant. Very well adapted to growing in plastic houses.  
Tr. pkt. ( $\frac{1}{64}$  oz.), \$1.25;  $\frac{1}{16}$  oz., \$3.30;  $\frac{1}{4}$  oz., \$11.00; 1 oz., \$33.00.



TOMATO, BALL EXTRA EARLY

**Wonder Boy.** Extremely large, red, quality Tomatoes of excellent flavor.  
Tr. pkt. ( $\frac{1}{64}$  oz.), \$1.00;  $\frac{1}{16}$  oz., \$2.50;  $\frac{1}{4}$  oz., \$8.50;  $\frac{1}{2}$  oz., \$16.00; 1 oz., \$30.00; 4 ozs., \$98.00.

## SPECIAL FORCING VARIETIES

**Ball Extra Early.** Very successfully used for forcing. See above.

**Tuckcross O. Forcing.** See above.

**Waltham Mold-Proof Forcing** (Inbred). The ideal forcing Tomato. Even sized, 4-oz. scarlet fruits, firm, good shippers, do not crack. Early. Immune to leaf mold.  
Tr. pkt. ( $\frac{1}{16}$  oz.), 50c;  $\frac{1}{4}$  oz., \$1.50; 1 oz., \$4.50.

**Michigan State Forcing** (Inbred). Wilt resistant. Deep scarlet fruits, average 5-6 ozs., globular, in large clusters. Flowers self-pollinating.  
Tr. pkt. ( $\frac{1}{16}$  oz.), 50c;  $\frac{1}{4}$  oz., \$1.50; 1 oz., \$4.50.

**Ohio W-R3 Globe** (Inbred). WILT RESISTANT. Pink fruits a little larger than regular Globe.  
Tr. pkt. ( $\frac{1}{16}$  oz.), 50c;  $\frac{1}{4}$  oz., \$1.50; 1 oz., \$4.50.



"My customers like plants in Jiffy-Pots. There's nothing to do but pot them up and put them in the ground. There's no set-back whatsoever. They just go right on growing." So says Eugene Ward of Bright & Ward Greenhouses, Cullman, Alabama.







## GROW VEGETABLES IN JIFFY-POTS

You can get a premium price for well grown vegetables, such as the Tomato at left, in Jiffy-Pots. Your customers find earlier production and vigorous growth of Jiffy-Potted vegetables well worth the extra cost. Plants never wilt in transplanting—never suffer set-back. See pages 108-119.



## STANDARD TOMATO VARIETIES

1 oz. 4 ozs. 1 lb.


<b>Ball Extra Early.</b>  See opposite page.			
<b>Ball Giant Hybrid.</b>  See opposite page.			
<b>Burpee Hybrid.</b>  See page opposite page.			
<b>Burpee Big Boy Hybrid.</b>  See opposite page.			
<b>Bonny Best</b> (John Baer reg.) Smooth and firm. 73 days .....	1/2 oz., 35c..	\$0.60	\$2.00 \$5.90
<b>Break O' Day.</b> Early. WILT-RESISTANT, globe-shaped. Heavy producer, flesh firm. 1/2 oz., 45c..	.80	2.70	8.00
<b>Caro-Red.</b> Purdue variety. Orange-red Rutgers type, contains 10 times more Vitamin A than other Tomatoes. Fine, distinctive flavor. 75 days .....	1/2 oz., 80c..	1.45	4.35 13.00
<b>Crimson Cushion or Beefsteak.</b> Large, flat, bright scarlet; solid, very prolific .....	1/2 oz., 55c..	1.00	3.30 9.90
<b>Earliana.</b> Medium size, deep scarlet, firm and smooth. 64 days. Fine early variety. 1/2 oz., 50c..	.90	3.00	9.00
<b>Early Detroit.</b> Valuable for shipping. Pink, medium large, smooth fruit. 78 days. 1/2 oz., 45c..	.80	2.70	8.00
<b>Firesteel.</b> 70 days. Deep red, sure setting. Best under drought conditions .....	1/2 oz., 40c..	.70	2.35 7.00
<b>Giant Tree or Potato Leaved.</b> 90 days. Extra large pink fruits often weighing 1 lb. or more. ....	Tr. pkt., 50c; 1/4 oz., \$1.20..	3.60	12.00 36.00
<b>Gulf State Market.</b> Very fine second early, crimson, medium size, very solid .....	1/2 oz., 45c..	.80	2.20 8.00
<b>Indiana Baltimore.</b> Heavy yielding "Stone" type. Popular canner; deep scarlet. 80 days .....	1/2 oz., 30c..	.50	1.70 5.00
<b>John Baer, Certified.</b> Standard all-purpose variety, second early, medium size, red .....	1/2 oz., 55c..	1.00	3.25 10.00
<b>Jubilee.</b> Orange; NON-ACID. All-America bronze medal winner .....	1/2 oz., 50c..	.90	3.00 9.00
<b>MANALUCIE (NEW).</b> Wilt and blight resistant scarlet. Large, globe-shape; crackproof. 90 days. ....	1/2 oz., 50c..	.90	3.00 9.00
<b>Master Marglobe Supreme, Certified.</b> Valuable for shipping and HIGHLY RESISTANT. 75 days. Extra select stock .....	1/2 oz., 70c..	1.20	4.00 12.00
<b>Oxheart.</b> 90 days. Extra large, heart-shaped, few seeds, mild flavor. NON-ACID ...	1/2 oz., 70c..	1.20	4.00 12.00
<b>Pinkshipper.</b> (U.S.D.A.) Best commercial pink. 80 days .....	1/2 oz., 70c..	1.20	4.00 12.00
<b>Ponderosa.</b> Extremely large; purplish pink, few seeds, mild flavor. 85 days .....	1/2 oz., 50c..	.90	3.00 9.00
<b>Pritchard</b> (Scarlet Topper). Fine all-around variety, heavy yielder; second early; WILT-RESISTANT .....	1/2 oz., 45c..	.75	2.50 7.50
<b>Red Top.</b> Improved Italian Canner. Cylindrical, 3 x 1 1/4 inches .....	1/4 oz., 35c..	1.10	3.70 ....
<b>Rutgers, Certified.</b> Red, smooth, thick walls—firm and mild. Does well even at a low fertility level. Favorite in sandy soil .....	1/2 oz., 50c..	.90	3.00 9.00

### TINY TIM

13,000 S. A novel miniature Tomato that can be raised as a colorful, small pot plant in the home. Ideal appeal to the housewife as she can add a touch of color to her winter-time menus and have a plant at the same time. 1/16 oz., 30c; 1/4 oz., 90c; 1 oz., \$2.70.



1 oz. 4 ozs. 1 lb.

<b>Stokescross No. 5.</b> This is an F <sub>2</sub> strain grown from F <sub>1</sub> seed. 80 days. 1/2 oz., 80c .....	\$1.45	\$4.35	\$13.00
<b>Stokesdale, Certified.</b> 75 days. Red, globular; fine canning variety .....	1/2 oz., 50c..	.85	2.80 8.50
<b>Stone.</b> 85 days. Valuable for market and canning; heavy producer; deep scarlet .....	1/2 oz., 40c..	.65	2.20 6.50
<b>Sunray.</b> Golden yellow, wilt resistant. Mild flavored, meaty. Finest yellow variety. 85 days. ....	1/2 oz., 45c..	.75	2.50 7.50
<b>Super Sioux.</b> Scarlet. New strain of an old favorite. Best variety for hot, dry areas. 70 days. ....	1/2 oz., 55c..	1.00	3.25 10.00
<b>Urbana.</b>  High yielding scarlet; very compact growth. 78 days ..	1/2 oz., 45c..	.80	2.70 8.00
<b>Valiant.</b> 70 days. Globe-shaped, large, smooth red fruits .....	1/2 oz., 50c..	.90	3.00 9.00
<b>Wisconsin Chief.</b> Univ. of Wisconsin introduction. Replaces Wisconsin No. 55. Very large red fruits; high yielder. 70 days. 1/2 oz., 80c..	1.45	4.35	13.00
<b>Red Cherry</b> <b>Yellow Plum</b> <b>Yellow Pear</b> <b>Yellow Husk</b> or <b>Ground Cherry</b> .....	Small fruited, for pickles, salads or preserves		1 oz. 4 ozs. \$0.75 \$2.50 1/4 oz., 25c





# Ball's Superior Vegetable Seeds



**LETTUCE,  
IMPERIAL No. 456**  
(Cornell)  
Sure heading in summer.

## KOHLRABI

(About 7000 seeds per oz.)

	1 oz.	4 ozs.	1 lb.
<b>Early White Vienna.</b> Standard sort for forcing and home garden. Globe-shaped .....	\$0.40	\$1.25	\$3.75

## LETTUCE

(15,000 seeds per oz.; ¼ oz. for 100-ft. row). Lettuce PLANTS are readily transplanted in plant bands. Sow March 15 or 4 weeks before setting out plants. Space 14x18 in.

	1 oz.	4 ozs.	1 lb.
<b>Grand Rapids Forcing.</b> Mildew-resistant. LOOSE-LEAVED variety. Best early .....	\$0.30	\$1.00	\$3.00
<b>Bibb Forcing.</b> Butterhead type of finest flavor. Demands even temperature .....	.30	1.00	3.00

### STANDARD VARIETIES

<b>Great Lakes.</b> New outstanding HEAD Lettuce; slow to bolt. "All-America" Winner ..	.60	2.00	6.00
<b>Imperial No. 465</b> (Cornell). Sure heading in summer .....	.60	2.00	6.00
<b>Pennlake.</b> <small>ALL-AMERICA SELECTION</small> An early Iceberg type with smaller ribs than Great Lakes. Withstands heat .....	.60	2.00	6.00
<b>Salad Bowl.</b> LOOSE-LEAVED. Early (45 days), stands summer heat very well .....	.60	2.00	6.00



**ONION, WHITE PORTUGAL**



## MELON MUSKMELON

(1000 seeds per oz.)

	1 oz.	4 ozs.	1 lb.
<b>Golden Delight.</b> A.A.S. Large, early. Hard shell, small seed cavity .....	\$0.50	\$1.65	\$3.50
<b>Honey Rock.</b> 85 days. Flesh orange, sweet, and of finest flavor. Fusarium resistant. Good shipper .....	.50	1.65	3.50
<b>Super Market.</b> 85 days. Thick, deep salmon flesh of excellent flavor; an exceptionally heavy yielder. Resistant to fusarium and downy mildew. 100 seeds, \$1.75; 500 seeds, \$7.90.			

## WATERMELON

	1 oz.	4 ozs.	1 lb.
<b>New Hampshire Midget.</b> Early .....	\$0.35	\$1.20	\$3.50



### MELONS IN JIFFY-POTS

Whether you sell plants or ripe Melons, Jiffy-Pots will do it better.



## ONION

(About 9000 seeds per oz.)

**Early Harvest.** (U.S.D.A.) HYBRID Will compete with Onion sets in making mature Onions. Semi-pungent. Not a storage type. ½ oz., 80c; 1 oz., \$1.40; 4 ozs., \$4.50; 1 lb., \$14.00.

	1 oz.	4 ozs.	1 lb.
<b>Riverside, Utah Strain</b> (Yellow Sweet Spanish). Globe-shaped .....	½ oz., 40c	\$0.70	\$2.30 \$6.90
<b>Yellow Bermuda.</b> Standard early. Flat, straw colored .....	½ oz., 40c	.70	2.30 6.90
<b>White Portugal.</b> All-purpose variety. Fine for sets, pickling, bunching, and mature Onions. ....	½ oz., 40c	.70	2.30 6.90

## PARSNIP

(1½ ozs. per 100-ft. row). Sow early, space rows 18 in. Roots hardy.

	1 oz.	4 ozs.	1 lb.
<b>Short, Thick.</b> 100 days. Finest and earliest strain. Pulls easily, sweet delicate flavor ....	\$0.25	\$0.70	\$2.10

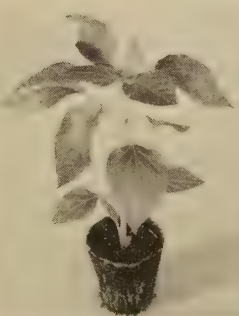
## PEAS

	4 ozs.	1 lb.	5 lbs.
<b>Freezonian.</b> <small>ALL-AMERICA SELECTION</small> 62 days. Medium .....	\$0.30	\$0.90	\$3.00
<b>Little Marvel.</b> 64 days. Dwarf .....	.30	.90	3.00

## PARSLEY

(¼ oz. per 100-ft. row). Roots are transplanted from outside to 4-in. pots or ground bed in cool house, or sow directly, 8x8 in. 1 oz. 4 ozs. 1 lb.

<b>Extra Triple Curled.</b> 75 days. Closely curled, very compact and productive .....	\$0.30	\$1.00	\$3.00
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**GROW VEGETABLES  
IN JIFFY-POTS**

You can get a premium price for well grown vegetables, such as the Pepper at left, in Jiffy-Pots. Your customers find earlier production and vigorous growth of Jiffy-Potted vegetables well worth the extra cost. Plants never wilt in transplanting—never suffer set-back. See pages 108-119.




# Ball's Superior Vegetable Seeds (cont.)

*Wm. J. Ball*  
INC.



PEPPER, CALIFORNIA WONDER

## PEPPER

 (About 3000 seeds per oz.) Sow 6 weeks before outdoor planting. Germinate seeds warm. Space plants 16x24 in. Days indicated are from date plants are set out.

	1 oz.	4 ozs.	1 lb.
<b>California Wonder Select.</b> (Sweet.) 72 days Standard of excellence in Sweet Peppers. Extra thick walls ..... 1/2 oz., <b>40c.</b> ..	<b>\$0.75</b>	<b>\$2.70</b>	<b>\$7.50</b>
<b>Chinese Giant.</b> (Sweet.) 80 days. The largest Sweet Pepper ..... 1/2 oz., <b>60c.</b> ..	<b>1.00</b>	<b>3.35</b>	<b>10.00</b>
<b>Golden Wonder.</b> Golden fleshed California Won- der type ..... 1/2 oz., <b>60c.</b> ..	<b>1.00</b>	<b>3.35</b>	....
<b>Hungarian Yellow Wax.</b> (Hot.) Tapering, 6 1/2 in. long. Very early. Plants small, productive ..... 1/2 oz., <b>50c.</b> ..	<b>.90</b>	<b>3.00</b>	<b>9.00</b>
<b>Long Red Cayenne.</b> (Hot.) 70 days. For pickles, canning or drying ..... 1/2 oz., <b>35c.</b> ..	<b>.60</b>	<b>2.00</b>	<b>6.00</b>
<b>Merrimack Wonder.</b> (Mild.) Thick flesh. Rec- ommended where growing season is short. ..... 1/2 oz., <b>50c.</b> ..	<b>.95</b>	<b>3.35</b>	<b>9.50</b>
<b>Oakview Wonder.</b> (Sweet.) 65 days. (Early California Wonder.) ..... 1/2 oz., <b>70c.</b> ..	<b>1.20</b>	<b>4.00</b>	<b>12.00</b>
<b>Pimento</b> (Perfection). (Sweet.) 72 days. Fruits smooth, conical ..... 1/2 oz., <b>45c.</b> ..	<b>.75</b>	<b>2.50</b>	<b>7.50</b>
<b>Red Chili.</b> Numerous 2-2 1/2-in. long fruits. Borne upright. Very pungent ..... 1/2 oz., <b>40c.</b> ..	<b>.75</b>	<b>2.50</b>	....
<b>Ruby King.</b> (Sweet.) 68 days. Very productive. ..... 1/2 oz., <b>35c.</b> ..	<b>.65</b>	<b>2.20</b>	<b>6.50</b>
<b>Sunnybrook.</b> (Sweet.) Tomato-shaped fruits. Turn scarlet-red earlier than most other Peppers. 70 days ..... 1/2 oz., <b>40c.</b> ..	<b>.75</b>	<b>3.00</b>	<b>7.50</b>
<b>Sweet Banana</b> (Sweet Hungarian). Tapering, 6 1/2 in. long ..... 1/2 oz., <b>60c.</b> ..	<b>1.00</b>	<b>3.35</b>	<b>10.00</b>

## PEPPER, Continued

	1 oz.	4 ozs.	1 lb.
<b>Sweet Bull Nose</b> (Sweet mountain). Mild-fleshed. 65 days ..... 1/2 oz., <b>35c.</b> ..	<b>\$0.65</b>	<b>\$2.20</b>	<b>\$6.50</b>
<b>World Beater.</b> (Sweet.) 70 days. Large, oblong, green, thick flesh ..... 1/2 oz., <b>35c.</b> ..	<b>.60</b>	<b>2.00</b>	<b>6.00</b>
<b>Vinedale.</b> (Sweet.) All-America Winner. Some- what tapered, thick fleshed, extra early. Best for northern climates ..... 1/2 oz., <b>50c.</b> ..	<b>.95</b>	<b>3.35</b>	....
<b>Yolo Wonder.</b> (Sweet.) 70 days. Mosaic resist- ant ..... 1/2 oz., <b>50c.</b> ..	<b>.90</b>	<b>3.00</b>	<b>9.00</b>

## PUMPKIN

<b>Small Sugar Pie.</b> Early orange .....	<b>.25</b>	<b>.85</b>	<b>2.50</b>
<b>Large Yellow</b> or <b>Connecticut Field</b> .....	<b>.25</b>	<b>.85</b>	<b>2.50</b>

## RADISH

(1 oz. for 100-ft. row.)

<b>Cherry Belle.</b> 23 days. Round, red and very crisp .....	<b>.25</b>	<b>.50</b>	<b>1.50</b>
<b>Early Scarlet Globe</b> (Short Top). 23 days. An ideal florists "catch crop" .....	<b>.25</b>	<b>.45</b>	<b>1.35</b>
<b>Icicle.</b> 27 days. Best white for outdoors and forc- ing .....	<b>.25</b>	<b>.45</b>	<b>1.35</b>

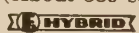
## SPINACH

(1 oz. for 100-ft. row.)

<b>Giant Thick-Leaved</b> (Nobel). 45 days .....	<b>.25</b>	<b>.40</b>	<b>1.20</b>
<b>New Zealand</b> (Tetragonia). Picked throughout the summer. Suitable for greenhouse forcing in 50-60° temperature .....	<b>.25</b>	<b>.40</b>	<b>1.20</b>

## SQUASH

(About 380 seeds per oz.)



<b>BLACKINI (NEW).</b>  <b>HYBRID</b> Good looking dark green Zucchini type. Ready in 50 days from setting out, when cylindrical fruits are 6-8 inches long. Very productive; fine flavor and texture ..	<b>.90</b>	<b>3.00</b>	<b>9.00</b>
<b>Butternut.</b> 100 days. Winter Squash .....	<b>.40</b>	<b>1.25</b>	<b>3.75</b>
<b>Early Prolific Straightneck.</b> 50 days. Summer Squash. Edible when 4 to 14 in. ....	<b>.30</b>	<b>1.00</b>	<b>3.00</b>

## SWISS CHARD

(1 oz. for 100-ft. row.)

<b>Lucullus.</b> Deep green crumpled leaves. Cool house temperature. Pick leaves .....	<b>.25</b>	<b>.75</b>	<b>2.25</b>
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## TURNIPS

<b>JUST RIGHT (NEW).</b>  <b>HYBRID</b>  <b>ALL-AMERICA SELECTION</b> The best combination type Turnip ever. Heavy cut leaf foliage with smooth, white, globe-shaped roots ..... 1/2 oz., <b>60c.</b> ..	<b>1.00</b>	<b>3.00</b>	....
<b>Purple-Top, White Globe</b> .....	<b>.25</b>	<b>.40</b>	<b>1.25</b>



## GROW VEGETABLES IN JIFFY-POTS

You can get a premium price for well grown vegetables, such as the Tomato at left, in Jiffy-Pots. Your customers find earlier production and vigorous growth of Jiffy-Potted vegetables well worth the extra cost. Plants never wilt in transplanting—never suffer set-back. See pages 108-119.

The Jiffy-Pot symbol indicates varieties recommended for plant sales.





Here are 59 varieties of Carnations in comparative trials at West Chicago—10 sq. ft. of each variety. Elegance in the foreground. Production, flower size, splits, etc., are recorded. In the photo (left) Arvilla Kerst, Plant and Bulb Department manager, and Bob Wintz, manager of our Advertising Department. See August '59 GROWER TALKS for trial report.

## Ball Plants for Florists

Ball plants are grown by **specialists** in all parts of the United States. Frequent calls are paid our suppliers by Ball office personnel to make sure our **quality standards** are being maintained.

Any order placed with us for plants is regarded as an important commitment on which we will follow through. **Try us for your next plant requirements.**

### *Carnation - Elegance*

#### MINIATURE CARNATIONS

Elegance is a rose-pink and white sport of Exquisite, originated and disseminated by W. Pomeroy Thomson, of West Hartford, Conn. By taking out the terminal bud and letting the remaining lateral buds open, a graceful spray with from 4 to 8 miniature flowers will develop. These sprays lend themselves well for use in arrangements and bouquets. The individual flowers are excellent for use in corsages. The new colors of this line of miniature Carnations are now on trial and will be ready for dissemination in the near future. This variety will be restricted under growers agreement until September 1, 1961.

**\$20.00** per 100; **\$180.00** per 1000. 250 or more at the thousand rate. **MINIMUM ORDER 100.**





# Carnation Cuttings

*G. J. Ball*  
INC.

## GENERAL LIST

We offer rooted cuttings of the following varieties. Our propagators are the country's leading Carnation specialists. We offer our cuttings with every confidence that you'll find them as fine or finer than any other cuttings on the market. **Available Nov. 1 through June.**

### WHITE

	Per 100	Per 1000
* <b>Aurora.</b> Large white .....	\$13.00	\$120.00
<b>Divinity</b> (Res.). White sport of Majestic .....	20.00	150.00
* <b>Electra.</b> Large, informal white .....	15.00	120.00
<b>Hoosier Spice</b> (Res.). Pure white, good producer. 100-225, \$15.00 per 100; 250-975, \$13.00 per 100 .....		110.00
* <b>Improved Olivette.</b> Larger and cleaner than Olivette .....	10.00	90.00
* <b>Imp. White Sim.</b> A selection of White Sim .....	15.00	125.00
<b>IWATA'S WHITE SIM</b> (NEW—Res.). Minimum order 250. Available January 1 .....		150.00
<b>Northland.</b> Large, fragrant white .....	12.00	110.00
* <b>White Apollo.</b> White sport of Apollo .....	11.00	100.00
<b>White Boston</b> (Res.). Sport of Boston, clean white .....	15.00	125.00
* <b>White Littlefield.</b> Pure white sport of Sidney Little- field .....	15.00	125.00
<b>White Sim.</b> Pictured on page 70. Pure white sport of Wm. Sim .....	15.00	125.00

### LIGHT PINK

<b>Akawee</b> (Res.). Delicate light pink. Sold under agreement. 250-750, \$18.00 per 100; 1000 up, \$17.50 per 100. Minimum order 250 .....		.....
<b>Hoosier Desire</b> (Res.). Clear light pink. Very large. 100-225 cuttings, \$15.00 per 100; 250-975, \$13.00 per 100 .....		110.00
* <b>Light Pink Littlefield.</b> Similar to Hercules Virginia .....	15.00	125.00
<b>LINDA</b> (NEW—Res.). Light pink sport of Mamie .....	20.00	150.00
<b>Nancy Thomson.</b> Light pink sport of Sidney Little- field .....	15.00	125.00
<b>PETERSON'S NEW PINK SIM</b> (NEW) .....	15.00	100.00
<b>Pink Beauty.</b> Sport of Pink Sim .....	15.00	120.00
* <b>Pink Sim.</b> Light pink. Pictured on page 70 .....	15.00	125.00
<b>SHIBUYA LIGHT PINK</b> (NEW—Res.). Minimum order 250 .....		150.00
* <b>Virginia Hercules.</b> Large sport of Virginia .....	15.00	130.00

### SALMON-PINK

* <b>Apollo.</b> Widely accepted salmon-pink .....	11.00	100.00
* <b>APOLLO No. 2</b> (NEW). An improved Apollo ....	11.00	100.00
* <b>Athena.</b> Lustrous salmon-pink .....	11.00	100.00
<b>Braun's Sim</b> (Res.). Deep salmon-pink sport of Sim. 250-450, \$20.00 per 100; 500-950, \$18.00 per 100 .....		160.00
* <b>Debbie.</b> Salmon sport of Sim .....	20.00	125.00
* <b>Flamingo Pink Sim.</b> Dark salmon-pink .....	15.00	100.00
<b>Keefers Cheri Sim.</b> Bright deep salmon-pink; large flowers, few splits. 100-225, \$20.00 per 100; 250- 975, \$18.00 per 100 .....		160.00
* <b>Laddie Sim.</b> Deep salmon Sim .....	15.00	125.00
* <b>Salmon Sim.</b> Salmon-pink .....	15.00	125.00
<b>Salmonaise.</b> Salmon-pink sport of Virginia .....	15.00	125.00
<b>Shibuya Sim</b> (Res.). Medium salmon-pink sport of Mamie. Pictured on page 70. Minimum order 250 cuttings for \$37.50 .....		150.00
* <b>Shocking Pink Sim.</b> Brilliant dark salmon .....	15.00	125.00
<b>TAFFETA</b> (NEW). Salmon-pink .....	15.00	125.00

\*Also available from Yoder Bros. See pages 70-71.

### MEDIUM PINK

	Per 100	Per 1000
<b>Citation.</b> Rose-pink .....	\$15.00	\$130.00
<b>Portrait</b> (Res.). Beautiful pink .....	20.00	125.00
<b>Virginia Rose.</b> Uniform production; good keeper ..	12.00	100.00

### DARK PINK

<b>Boston.</b> Dark pink. Very productive .....	15.00	125.00
* <b>Imp. Sidney Littlefield.</b> Virus-free, better growth, much better color .....	15.00	125.00
<b>Virginia Miller.</b> Dark pink Virginia .....	12.00	100.00

### CRIMSON and RED

<b>CHIPPEWA</b> (NEW). Crimson .....	15.00	125.00
* <b>Cardinal Sim.</b> Color similar to King Cardinal ....	15.00	125.00
<b>Congo.</b> Crimson .....	15.00	100.00
* <b>Dark Red Sim.</b> Dark scarlet sport of Sim .....	15.00	125.00
<b>Jumbo Cardinal.</b> Improved Cardinal. 100-225, \$15.00 per 100; 250-975, \$13.00 per 100 .....		110.00
<b>Majestic</b> (Res.). Cross of Wm. Sim. Larger, brighter red .....	20.00	150.00
<b>Red No. 16.</b> Same color as King Cardinal .....	12.00	100.00
<b>Red Gayety.</b> Clear red. Same growing habit as Gayety .....	15.00	125.00
<b>Red Sim.</b> Strain of Wm. Sim. Pictured on page 70 .....	15.00	125.00
<b>Scania.</b> A selection from Europe .....	15.00	125.00
<b>Tom Knipe</b> (Pat.) Large red, full flower. 100-225, \$15.00 per 100; 250-975, \$13.00 per 100 .....		110.00
* <b>Topper.</b> Rich velvety maroon .....	15.00	125.00
<b>Wm. Sim</b> (Pat.) Vivid red seedling .....	15.00	125.00
<b>Wooster Scarlet.</b> Red .....	12.00	100.00

### YELLOW

<b>Braun's Yellow Sim</b> (Res.) Lemon-yellow with Sim's vigorous growth. 100-225, \$15.00 per 100; 250-975, \$13.00 per 100 .....		110.00
<b>Brigadoon.</b> Clear lemon-yellow .....	15.00	120.00
<b>Corinne</b> (Res.) Lovely, clear yellow .....	20.00	160.00
* <b>Harvest Moon.</b> Buff-yellow .....	15.00	125.00
<b>Hoosier Gold</b> (Res.) Yellow with faint pink stripes. Not a variegated. 100-225, \$15.00 per 100; 250- 975, \$13.00 per 100 .....		110.00
* <b>Imp. Miller's Yellow.</b> Good yellow .....	15.00	125.00
<b>Pajee</b> (Res.) Pictured on page 70. Deep yellow with light pink flecking. Sold under agreement. 250-750, \$18.00 per 100; 1000 up, \$17.50 per 100. Mini- mum order 250 .....		.....
<b>Yellow Sim.</b> Golden yellow similar to Harvest Moon .....	15.00	125.00

### ORCHID and PURPLE

<b>DEEP PURPLE</b> (NEW). Dark sport of Orchid Beauty .....	25.00	180.00
<b>Exquisite.</b> Purple, orchid edge .....	15.00	125.00
<b>Purple Littlefield.</b> Deep purple .....	15.00	125.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



# Carnation Cuttings

## GENERAL LIST, Continued

### NOVELTIES

	Per 100	Per 1000
* <b>Anniversary.</b> A shade darker than Scarlet Sim .....	\$15.00	\$125.00
<b>Candy Lee.</b> White with red .....	15.00	125.00
* <b>Cooper's Var. Sim.</b> White with red markings .....	15.00	125.00
* <b>Gayety.</b> White with red streaks .....	15.00	125.00
<b>Hollywood Sim.</b> Light pink petals with red overlay .....	15.00	125.00
<b>Variegated Lavender Littlefield.</b> Orchid with purple stripe ...	15.00	125.00
<b>Lavender Rose.</b> Lavender-rose seedling .....	15.00	125.00
* <b>Mamie.</b> White with red streaks .....	15.00	125.00
<b>Mohawk.</b> Yellow variegated with pink stripes .....	15.00	125.00
<b>MOONLIGHTER (NEW—Res.).</b> Maroon flecks on clear light pink .....	25.00	200.00
* <b>Nectar.</b> Large orange-yellow-scarlet striping .....	13.00	120.00
<b>Peking Pink Littlefield.</b> Dark pink to scarlet with white tip ...	15.00	125.00
* <b>Peppermint Sim.</b> Red and white with red penciling .....	15.00	125.00
<b>Pikes Peak Sim.</b> Flushed pink with frosting .....	15.00	125.00
* <b>S. Arthur Sim.</b> White with red stripes .....	15.00	125.00
* <b>Scarlet Sim.</b> Sport of Sim. Similar to Scarlet King .....	15.00	125.00
<b>Symphony.</b> (Pat.). Mauve with reddish purple stripes. 100-225, \$15.00 per 100; 250-975, \$13.00 per 100 .....		110.00
<b>Tetra-Sarah Jane.</b> (Pat.) Large flowered magenta. Silver edge. 100-225, \$25.00 per 100; 250-975, \$20.00 per 100 .....		150.00

Minimum quantity, 100 of a variety unless specified otherwise. 250 or more of a variety at the 1000 rate. Shipped from Massachusetts, Colorado, Ohio, Connecticut, and Indiana.

\*Also available from Yoder Bros. See below.

## Yoder Bros. Carnation Cuttings

### WHITE

	100-250 Per 100	300-950 Per 100	1000 up Per 100
<b>Aurora.</b> Exceptionally large white. Flower size and heavy stem are points of emphasis. Performs best in higher than average Carnation temperatures, and with a narrow range of difference between day and night temperatures. An average to heavy producer .....	\$13.00	\$12.50	\$12.00
<b>Colorado White Sim.</b> Reselection of White Sim. Most important asset is its non-splitting trait. Has fewer petals and straighter winter stems. Vigor and production remain the same .....	11.50	11.00	10.50
<b>Electra.</b> Large, informal white. Petals are deeply serrated. Exhibits the vigor, stretch and production of White Sim with an improved stem for winter flowering .....	13.50	13.00	12.50
<b>Imp. Olivette.</b> A more vigorous, taller reselection of Olivette .....	13.00	12.50	12.00
<b>Imp. White Sim.</b> Large white sport of William Sim. Best under high winter light intensities to improve stem strength. Easily the most popular and important white presently grown .....	11.00	10.50	10.00
<b>White Apollo.</b> White sport of Apollo. Unequalled for year round productivity. A marked improvement over Olivette for flower size and stem strength during the winter months. More versatile than Apollo since it is not subject to fading and has an improved summer form .....	11.00	10.50	10.00
<b>White Littlefield.</b> Grown for its large size and good form. Strong stems are of medium length. Temperature requirements are higher than for Sim varieties .....	12.50	12.00	11.50

### DARK PINK

	100-250 Per 100	300-950 Per 100	1000 up Per 100
<b>Hermes.</b> A good dark pink with high temperature color retention. Becomes a scarlet-pink during the winter months. Ships and keeps well. Rarely splits .....	\$14.00	\$13.50	\$13.00
<b>Imp. Sidney Littlefield.</b> Dark pink. Markedly improved vigor over original with longer, stronger stems .....	13.00	12.50	12.00
<b>Mentor.</b> Rich, rose-pink. Strong, rigid stems. Notable keeping and color retention properties throughout the year .....	15.50	15.00	14.50

### LIGHT PINK

<b>Aphrodite.</b> A true light pink. An early producer with an early comeback. Best in high light intensity areas .....	13.00	12.50	12.00
<b>Light Pink Littlefield.</b> This is the select strain and is flesh-pink. Well known for its size and good summer color retention .....	13.00	12.50	12.00
<b>Pink Sim.</b> Flesh-pink sport of Sim. The most popular pink in the Sim family. Extensive reselection has materially reduced splitting .....	11.50	11.00	10.50
<b>Virginia Hercules.</b> Well known for its form, color, and keeping quality. Air cooling has extended its period of value .....	15.50	15.00	14.50

Prices subject to change without notice.



# Yoder Bros. Carnation Cuttings (Cont'd)

*Gro. J. Ball*  
INC.

## SALMON-PINK

	100-250 Per 100	300-950 Per 100	1000 up Per 100
<b>Apollo.</b> Salmon-pink. Well known for its production and sturdy stems. Cropping is heavier than No. 2 Apollo . . . . .	\$11.00	\$10.50	\$10.00
<b>No. 2 Apollo.</b> An improved selection in Apollo with larger flower size and markedly increased stem length. Color remains the same as Apollo. The improved vigor in stem and size is evident throughout the year . . . . .	11.50	11.00	10.50
<b>Athena.</b> A lustrous salmon-pink slightly deeper than Venus and possessing a greater color clarity than Apollo in all seasons. A reliable winter producer. Has vigor, stretch and rigid stems. Recognized for non-splitting traits . . . . .	11.00	10.50	10.00
<b>Debbie.</b> Salmon-pink Sim sport. Intermediate in color between Salmon Sim and Pink Sim . . . . .	13.00	12.50	12.00
<b>Dusty.</b> Salmon-rose with dusted overtones or light fringing of white . . . . .	13.00	12.50	12.00
<b>Flamingo Sim.</b> Softer salmon-pink than Shocking Pink with less splitting . . . . .	13.00	12.50	12.00
<b>Laddie Sim.</b> An intensified Salmon Sim. Color remains smooth and uniform throughout the year, being especially good at high temperature periods. Appears to be more resistant to splitting than Salmon or Pink Sim . . . . .	12.50	12.00	11.50
<b>Portrait.</b> Deep rose-pink with strong salmon overtones. Mamie sport that holds color well . . . . .	13.00	12.50	12.00
<b>Salmon Sim.</b> Light salmon. Sim sport. Summer color equals the winter color standards of Pink Sim . . . . .	13.00	12.50	12.00
<b>Shocking Pink.</b> Deep salmon. Sim sport. Heavy production. Color holds well under high temperatures. Size is reduced . . . . .	13.00	12.50	12.00
<b>Venus.</b> Salmon-pink. Flawless color. Like Charm, possesses superb flower qualities coupled with a long, rigid stem. A noted exhibition variety. Performs most satisfactorily at Littlefield temperatures . . .	14.50	14.00	13.50

## CRIMSON and RED

<b>Cardinal Sim.</b> Large scarlet-red sport of William Sim. The most vigorous and productive of the red Sim sports. Less petal serration. Rarely splits . . . . .	11.00	10.50	10.00
<b>Colorado Red Sim.</b> An improved William Sim. Greater vigor and productivity . . .	12.50	12.00	11.50
<b>Dark Red Sim.</b> Sport of William Sim. Possesses most intense red color of all red Sim sports. Excellent form and no streaking. Habit similar to original William Sim . . . . .	12.00	11.50	11.00
<b>Hill's Imp. Red Sim.</b> Sport of William Sim. Outstanding for its improved vigor, stretch and rapid cropping habit. Flowers are somewhat larger, being similar in form and color to William Sim. The longer stems of good rigidity are especially valuable on the early crops . . . . .	12.00	11.50	11.00
<b>Siren.</b> A bright scarlet. Combines heavy production with a fast comeback and uniform cropping on stems of medium length . .	13.50	13.00	12.50
<b>Titan.</b> An intense crimson-red. Dependable and continuous growth during the winter months. Recognized for its better than average shipping and keeping qualities . .	14.00	13.50	13.00
<b>Topper.</b> Crimson-red. Very clear, bright color with medium sized flowers. Fine stretch with wiry, strong stems. Very productive, free growth. Does not split . . .	13.50	13.00	12.50

## YELLOW

	100-250 Per 100	300-950 Per 100	1000 up Per 100
<b>Braun's Yellow Sim.</b> Clear golden buff. Sport of Harvest Moon. Sim habit . . . . .	\$12.50	\$12.00	\$11.50
<b>Brigadoon.</b> Clear lemon-yellow. Best results with high light environment. Will split in fall and spring . . . . .	12.50	12.00	11.50
<b>Harvest Moon.</b> An amber-gold sport of William Sim. Richly colored . . . . .	13.00	12.50	12.00
<b>Imp. Miller's Yellow.</b> An improved color selection from Miller's Yellow. Formerly known as Shirley Ann. Color is clear and intense . . . . .	15.00	14.50	14.00
<b>No. 2 Midas.</b> An improved vigor selection from Midas. Length and strength of stem are markedly greater. Color remains the same. Form and size are more uniform . .	12.00	11.50	11.00

## VARIEGATED

<b>Agate Athena.</b> Sport of Athena. Dark salmon bands and pencilling on salmon-pink background. Has the same vigor, high production, strong stem, and non-splitting character of parent variety. Good high temperature color retention . . . . .	13.00	12.50	12.00
<b>Anniversary.</b> Flushed red. Color intensification on Scarlet Sim . . . . .	12.50	12.00	11.50
<b>Cassandra.</b> A lively yellow variegated. Pink pencilling. Rarely splits. Flower has excellent substance and is an outstanding keeper . . . . .	14.50	14.00	13.50
<b>Cooper's Variegated.</b> Light pink background with medium to large red pencil markings. One of the fastest and most reproductive of the Sim sports . . . . .	13.00	12.50	12.00
<b>Garnet Sim.</b> Sport of White Sim. Scarlet-red background with uniform white pencilling. Production and rapid rate of return for successive crops excels most Sim varieties. Color is remarkable for its stability and intensity. This selection is one of the most resistant to splitting yet observed within Sim varieties . . . . .	13.00	12.50	12.00
<b>Gayety.</b> Variegated Sim. Flesh-pink background overlaid with bright red pencil pattern. More stable than Cooper's Variegated . . . . .	12.50	12.00	11.50
<b>Mamie.</b> Variegated Sim sport. White background overtoned with thin red pencil striping . . . . .	12.50	12.00	11.50
<b>Nectar.</b> Large orange-yellow variegated with broad scarlet striping . . . . .	12.50	12.00	11.50
<b>Peppermint Sim.</b> Pure white background with red penciling. Uniform and stable throughout the year. Somewhat taller than S. Arthur Sim . . . . .	13.00	12.50	12.00
<b>S. Arthur Sim.</b> Sport of Cardinal Sim. Uniform, narrow scarlet-red bands on a pure white background. Very stable to color and pattern. Size is larger and stems are stronger than average for Sim varieties. Splitting is no problem. An outstanding variegated Sim . . . . .	11.50	11.00	10.50
<b>Scarlet Sim.</b> A tone on tone Sim sport. Color ranges from an intense scarlet at the base of each petal to a frosty white at the petal margins. Color becomes most intense under low temperature winter conditions . . . . .	12.50	12.00	11.50
<b>Strawberry Sim.</b> Variegated red and pink Sim sport. An over-all narrow red pencilling diffused on a pink background. Background color markedly intensifies going into midwinter conditions. A striking novelty . . . . .	13.00	12.50	12.00

Prices subject to change without notice.



# Foliage Plant Collections

FOR THE GROWER WHO NEEDS A WIDE VARIETY

## BALL SPECIAL FOLIAGE PLANT COLLECTION

Notice all plants are in smaller sizes, which means less transportation cost. You can either pot them and sell almost immediately as small house plants, or you can grow them on to larger sizes and more profit. Plants used for these collections are exactly the same grade and quality as used for our regular bulk orders. We reserve the right to make substitutions of equal or better sizes and varieties in the event of shortages.



**NEPHTHYTIS,  
GREEN GOLD**



**CHINESE EVERGREEN**

- 25 Chinese Evergreen, R.C., 3 to 5 in. .. 3 to 6 leaves
- 15 Dracaena Sanderiana, R.C. .... 5 to 10 leaves
- 25 Maranta Kerchoveana, R.C. .... 3 to 7 leaves
- 25 Nephthytis Emerald Gem, R.C. .... 3 to 5 leaves
- 25 Nephthytis Green Gold, R.C. .... 3 to 5 leaves
- 25 Peperomia, variegated, R.C. .... 3 to 5 leaves

- 25 Peperomia Obtusifolia, R.C. .... 3 to 5 leaves
- 100 Philodendron Cordatum, R.C. .... 3 to 5 leaves
- 25 Pilea Cadierei (Aluminum Plant),  
R.C. .... 4 to 8 leaves
- 25 Pothos Wilcoxi, R.C. .... 3 to 5 leaves
- 25 Sansevieria Laurenti, 4 to 6 in. .... 3 to 5 leaves

### SPECIAL FOLIAGE PLANT COLLECTION (340 plants) for \$28.75

Shipping wt. 18 lbs. approx. (Slightly heavier during winter).



**POTHOS WILCOXI**

## BALL PHILODENDRON COLLECTION

(Large-Leaved)

Demand for these large-leaved Philodendrons is increasing fast—and with good reason! They respond well to ordinary living room conditions and are beautiful in either small or large sizes. Our collection contains plants of the four popular leaf types and varieties. Plants can be sold almost immediately or be grown on into larger sizes. Shipped in paper pots. **Standing orders are good business** to take care of your customers' regular needs.

### BALL 4-INCH COLLECTION

- 10 **Pertusum.** The most popular of the large-leaved kinds.
- 6 **Hastatum.** Excellent for totem poles. Enjoys shade and should not be overwatered.
- 4 **Florida.** Nicely lobed; heavy, tough leaves; stalks deep red. Slow grower.
- 4 **Panduraeforme.** Requires moist, well drained soil and shade.

**24 plants for \$20.35**

### BALL 3-INCH COLLECTION

- 15 **Pertusum.** The most popular of the large-leaved kinds.
- 10 **Hastatum.** Excellent for totem poles. Enjoys shade and should not be overwatered.
- 10 **Florida.** Nicely lobed; heavy, tough leaves; stalks deep red. Slow grower.
- 15 **Panduraeforme.** Requires moist, well drained soil and shade.

**50 plants for \$29.75**



**P. PERTUSUM**

### SPECIAL STANDING ORDER QUANTITY DISCOUNT!

Our special **5% discount** from the above quoted prices applies on orders for 3 or more of the above collections—applies on orders for either collection or any combination of the two. To assure a continuing supply, why not order collections to be shipped at regular intervals throughout the season? Be sure to specify when shipments are to be made.

Above collections are shipped F.O.B. Florida and are available throughout the year.



**P. PANDURAEFORME**



**P. HASTATUM**



**P. FLORIDA**

Foliage plants F.O.B. Florida unless otherwise stated.



# PHILODENDRON

F.O.B. FLORIDA

*Gro. J. Ball*  
INC.

**CORDATUM.** The most widely grown house plant.

	Per 100	Per 1000
<b>Rooted Cuttings</b> , 2-3 leaves (Min. order 500) ..	....	\$ 40.00
<b>Rooted Cuttings</b> , 3-5 leaves (Min. order 500) ..	....	55.00
<b>2 1/4 in.</b> , 2 per pot (Min. order 100) .....	16.00	150.00
<b>2 1/4 in.</b> , 3 per pot (Min. order 100) .....	17.00	160.00

**DUBIA.** Deeply lobed leaves.

<b>3 in.</b> (Min. order 25) .....	45.00	....
<b>4 in.</b> (Min. order 25) .....	60.00	....

**HASTATUM.** Large, arrow-shaped, leathery leaves.

<b>3 in.</b> (Min. order 25) .....	50.00	....
<b>4 in.</b> (Min. order 25) .....	75.00	....

**FLORIDA**

<b>3 in.</b> , 2 plants (Min. order 50) .....	60.00	....
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**MONSTERA**

<b>4 in.</b> , 3 leaves up (Min. order 25) .....	110.00	....
<b>6 in.</b> , 3-5 leaves, 14 in. up (Min. order 8) each.	\$1.75	....

Pole and Specimen Plants Available—Write for Prices

**MICANS.** Foliage oblong, variegated red and green.

	Per 100	Per 1000
<b>Rooted Cuttings.</b> (Min. order 100) .....	\$ 7.00	\$ 60.00
<b>2 1/4 in.</b> (Min. order 100) .....	21.00	200.00

**PANDURAEFORME.** A good climber with "fiddle-shaped" leaves.

<b>Rooted Cuttings.</b> 3-5 leaves (Min. order 100) ...	15.00	125.00
<b>3 in.</b> , 2 plants (Min. order 100) .....	26.00	250.00
<b>4 in.</b> , 3 plants (Min. order 25) .....	50.00	....

**PERTUSUM.** Most widely grown large-leaved Philodendron. Excellent for totem pole work.

<b>Moss Rooted Tips</b> , 4 leaves and up. (Min. order 25)	75.00	....
<b>3 in.</b> (Min. order 25) .....	50.00	....
<b>4 in.</b> , 1 per pot. (Min. order 25) .....	75.00	....
<b>4 in.</b> , 2 per pot. (Min. order 25) .....	100.00	....

DUBIA



HASTATUM



PANDURAEFORME



## Ball Decorative Foliage Plants

F.O.B. FLORIDA

### AGLAONEMA (Chinese Evergreen)

Excellent plants for dry, dark locations. Widely used in smaller sizes for dish gardens.

#### SIMPLEX ROOTED CUTTINGS

	Per 100	Per 1000
<b>3- 5 in.</b> , 3-6 leaves (Min. order 100) \$	8.00	\$ 75.00
<b>4- 6 in.</b> , 4-6 leaves (Min. order 100)	11.00	100.00
<b>5- 7 in.</b> , 4-7 leaves (Min. order 100)	13.00	120.00
<b>6- 8 in.</b> , 5-7 leaves (Min. order 100)	21.00	200.00
<b>8-10 in.</b> , 6-8 leaves (Min. order 100)	26.00	250.00
<b>10-12 in.</b> , 6-9 leaves (Min. order 100)	31.00	300.00
<b>12-15 in.</b> , 6-9 leaves (Min. order 100)	36.00	350.00

#### UNROOTED CUTTINGS

<b>6- 8 in.</b> , 5-7 leaves (Min. order 100) .....	11.00	100.00
<b>8-10 in.</b> , 5-8 leaves (Min. order 100) .....	13.00	120.00

#### COMMUTATUM

<b>2 1/4 in.</b> (Min. order 100) .....	26.00	250.00
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AGLAONEMA  
(Chinese  
Evergreen)



### CROTONS

Each

**FANCY HYBRIDS.** Mossed Layers (foil wrapped). (Min. order 25) .....

**ASSORTED MOSSED LAYERS.** (Min. order 50) .....

**ASSORTED 3 INCH.** (Min. order 50) .....

### FIVE IMPORTANT POINTS TO REMEMBER IN GROWING FOLIAGE PLANTS

1. Soil mixtures should be heavily organic. For instance, a mixture of 1 part greenhouse soil, 1 part sand and 2 parts peat moss is good.
2. Regular feeding is important to keep plants growing and in good leaf color.
3. Temperatures should be a **minimum** of 65 to 70°, and higher than this for certain varieties.
4. High relative humidity is important.
5. Shade is important. Light shade during the northern winter months and heavy shade during summer.

Transportation is always a problem with Foliage plants. Inspect carefully on arrival and report at once to express agent if damaged.





#### BALL SALESMEN TOURING FOLIAGE PLANT SOURCES IN FLORIDA

Regular visits to important foliage plant growers in Florida and other areas help keep your Ball salesman fully informed on the foliage plant business. Photo above includes Johnny Naydo, California; Frank Drab, New Jersey; Rocky Calamia, Connecticut; Long Island; Don Carey, Sales Manager; Arvilla Kerst, Manager of Plant Dept.; Ray Benston, Carolinas; Blaine Stuhlsatz, Chicago; Geo. K. Ball; Si Randolph, Michigan; and Mr. Roger Nason of La Hacienda Nursery.

## Ball Decorative Foliage Plants

F.O.B. FLORIDA

### DIEFFENBACHIA

Should be kept on the dry side. Temperatures between 55 and 68° are ideal. Grow in straight peat or a mixture of half peat and half soil. Should be shaded from direct sun.

**AMOENA.** Large, oblong leaves with many long blotches of white and pale yellow. Per 100 Per 1000

3 in. (Min. order 25—Limited) .....\$75.00 .....

**EXOTICA.** Hardy. Most highly variegated.

3 in., Small. (Min. order 50) ..... 50.00 .....

3 in., Large. (Min. order 25) ..... 75.00 .....

**HOFFMANNI.** Large oblong leaves with light blotches.

3 in., Small. (Min. order 50) ..... 50.00 .....

3 in., Large. (Min. order 25) ..... 75.00 .....

**PICTA.** Green leaves blotched greenish white.

Rooted Cuttings (Min. order 50) ..... 30.00 .....

2 1/4 in. (Min. order 100) ..... 20.00 .....

3 in. (Min. order 50) ..... 35.00 .....

4 in. (Min. order 25) ..... 75.00 .....

**ROEHRSI.** Yellowish green leaf, blotched ivory and edged green.

2 1/4 in. (Min. order 100) ..... 25.00 .....

3 in. (Min. order 50) ..... 40.00 .....

4 in. (Min. order 25) ..... 75.00 .....

### DRACAENA

Temperatures between 65 and 80° are ideal. Provide some shade from direct sun.

**GODSEFFIANA.** Low growing plant with yellow dotted, glossy green leaves on wiry stems. Per 100 Per 1000

Rooted Cuttings, 2-3 tiers. (Min. order 100) ....\$10.00 \$ 85.00

2 1/4 in. (Min. order 100) ..... 16.00 150.00

**SANDERIANA.** Broad white bands bordering gray-green foliage.

Rooted Cuttings, 5-10 leaves (Min. order 100) ... 16.00 150.00

2 1/4 in., 6-10 leaves (Min. order 100) ..... 21.00 200.00

### FICUS

Mossed layers.

Each

#### DECORA

10-16 leaves, 24-36 inches tall .....\$0.60

Minimum order, 20 per carton. Packing charge \$1.00 per carton.

#### PANDURATA (Fiddle Leaf).

20-30 inches tall. SOLD OUT till spring, 1960. .... .50

Minimum order, 15 per carton. Packing charge \$1.00 per carton.

### MARANTA

**KERCHOVEANA.** Flat, oval leaves with chocolate blotches.

Per 100 Per 1000

Rooted Cuttings, 3-5 leaves (Min. order 100) ....\$ 9.00 \$75.00

2 1/4 in. (Min. order 100) ..... 15.00 .....

2 1/4 in., 2 plants (Min. order 100) ..... 20.00 .....



### MOKOYANA

3 in., 6-10 leaves (Min. order 20) \$1.00 each.

### IVY

#### IMPROVED GLACIER

Per 1000

Rooted Cuttings.  
(Min. order 500)

.....\$45.00

Mrs. Arvilla Kerst, Plant and Bulb Dept. manager, and Lamont Marchman, Florida foliage plant grower, shown with a bench of his Maranta Mokoyana.



# Ball Decorative Foliage Plants



NEANTHE  
BELLA PALM

## NEANTHE BELLA PALM

	Per 100	Per 1000
Seedlings. 2 leaves. Minimum order 500		\$ 35.00
Transplants. 4-5 leaves, 6-8 in. Minimum order 250		50.00
2 1/4 in., 2 plants. Minimum order 100	17.00	160.00



NEPHTHYTIS,  
GREEN GOLD

## NEPHTHYTIS

	Per 100	Per 1000
EMERALD GEM. Green crinkled leaf.		
Routed Cuttings. 3-5 leaves. Minimum order 100	\$ 7.00	\$ 60.00
2 1/2 in. Minimum order 100	11.00	100.00
GREEN GOLD. Leaves show whitish centers.		
Routed Cuttings. 3-5 leaves. Minimum order 100	7.00	60.00
2 1/2 in. Minimum order 100	16.00	150.00

IMPERIAL WHITE. Wider leaved and lighter in color than Green Gold.

Routed Cuttings. 2-3 leaves. Minimum order 100.	7.00	60.00
Routed Cuttings. 3-5 leaves. Minimum order 100.	8.50	80.00

## PEPEROMIA

	Per 100	Per 1000
OBTUSIFOLIA. Leathery, shiny green leaves.		
Routed Cuttings. 3-5 leaves. Minimum order 100	\$ 7.00	\$ 60.00
2 1/4 in. 5-8 leaves. Minimum order 100.	11.00	100.00
VARIEGATA. Green leaves heavily variegated creamy yellow.		
Routed Cuttings. 3-5 eyes. Minimum order 100	\$11.00	\$100.00
2 1/4 in., 5-8 leaves. Minimum order 100	17.00	160.00



PEPEROMIA VARIEGATED

## PILEA CADIERI (Aluminum Plant)

	Per 100	Per 1000
Routed Cuttings. Minimum order 100	\$ 5.50	\$ 40.00
2 1/4 in. Minimum order 100	16.00	150.00
DWARF Routed Cuttings. Minimum order 100	6.00	50.00

## POTHOS

Beautifully colored leaves make the Pothos a wonderful plant for small arrangements and dish gardens.

MARBLE QUEEN. Green leaves variegated snowy white.

Routed Cuttings. 3-5 leaves. Minimum order 100	\$11.00	\$100.00
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	Per 100	Per 1000
2 1/4 in., 2 per pot. Minimum order 100.	\$21.00	\$200.00
3 in., 3 per pot. Minimum order 100.	28.00	275.00
WILCOXI. Green leaves, variegated with yellow.		
Routed Cuttings. 3-5 leaves. Minimum order 100	7.00	60.00
2 1/4 in., one per pot. Minimum order 100.	11.00	100.00
2 1/4 in., two per pot. Minimum order 100.	17.00	160.00



POTHOS WILCOXI

## SANSEVIERIA

About our most indestructible house plant. Withstands varying temperatures and dark corners.

LAURENTI. Dark green leaves with light green cross bands and broad yellow margin.	Per 100	Per 1000
4- 6 in. 3 leaves up. Minimum order 100	\$13.50	\$125.00
6- 8 in. 3 leaves up. Minimum order 100	13.50	125.00
8-12 in. 3 leaves up. Minimum order 100	13.50	125.00
12-15 in. 3 leaves up. Minimum order 100	14.00	130.00
15-18 in. 3 leaves up. Minimum order 100	14.00	130.00
18-24 in. 3 leaves up. Minimum order 100	14.00	130.00

ZEYLANICA. Same as Laurenti but no yellow margins.		
4- 6 in. 3 leaves up. Minimum order 100	8.00	70.00
6- 8 in. 3 leaves up. Minimum order 100	8.00	70.00
8-12 in. 3 leaves up. Minimum order 100	8.00	70.00
12-15 in. 3 leaves up. Minimum order 100	8.00	70.00

## SPATHYPHYLLUM

Oblong leaves, dark green above and lighter green below.

CLEVELANDII	Per 100	Per 1000
Routed Cuttings. 3-4 leaves. Minimum order 100	\$8.00	\$60.00

Transportation is always a problem with Foliage plants. Inspect carefully on arrival and report at once to express agent if damaged.

## PREPAID FOLIAGE COLLECTIONS

(Prepaid East of the Rockies)

### THE FOLLOWING ARE MONEY-MAKERS FOR SURE—TRY A COLLECTION OR TWO

No. 1 PHILODENDRON \$22.75 5 Pertusum. 4 in., 3-5 leaves. 5 Dubia. 4 in., 3-5 leaves. 5 Hastatum. 4 in., 4-5 leaves. 5 Monstera. 4 in., 3 leaves.	No. 3 PHILODENDRON \$25.50 7 Pertusum. 4 in., 3-5 leaves. 7 Hastatum. 4 in., 4-5 leaves. 6 Monstera. 4 in., 3 leaves.	No. 5 NEPHTHYTIS \$15.50 60 Green Gold 2 1/4 in. Plastic Pots, each containing 3 or more cuttings.
No. 2 PHILODENDRON \$22.75 10 Pertusum. 3 in., 3-4 leaves. 10 Dubia. 3 in., 3-4 leaves. 10 Hastatum. 3 in., 3-4 leaves.	No. 4 P. CORDATUM \$15.50 60 2 1/4 in. Plastic Pots, each containing 3 or more cuttings.	No. 6 PALM \$15.50 60 Neanthe Bella Palm, 2 1/4 in. Plastic, each carton containing 3 or more cuttings.
No. 7 ASSORTED 2 1/4 in. \$15.50 20 Nephthytis, Green Gold. 20 Philodendron Cordatum.	Collections 4, 5, 6, and 7 packed 60 per carton. Prepaid price includes packing. Will not prepay shipment West of the Rockies.	



# Ball Geraniums

## CUTTINGS

These cuttings come from California growers and are available throughout the year. When ordering, be sure to specify whether you want **ROOTED**, **UNROOTED**, or **CALLOUSED** cuttings.



PINK CLOUD

Appleblossom	Improved Ricard	Pink Phenomenal	Salmon Ideal
Avalon Red	Irene	*Pink Cloud	Salmon Irene
Better Times	Irvington Beauty	*Pink Fiat	Salmon Supreme
California Beauty	Madonna	Pink Better Times	Snowball
*Dark Red Irene	Mme. Buchner	Pride of Camden	Springtime
*Enchantress Fiat	Mme. Landry	Radio Red	Ivy Leaf Assorted
Genie	Olympic Red	Red Fiat	Fancy Leaf
Gregerson's White	Orange Ricard	Red Landry	Assorted
Improved Red Fiat	Penny		

*Limited Supply	Per	Per
Prices above 33 varieties, each:	100	1000
Unrooted Cuttings	\$4.50	\$40.00
Calloused Cuttings	6.50	60.00
Rooted Cuttings	8.50	80.00

Less than 250 of a variety will be billed at the hundred rate.

**MINIMUM ORDER, 1500 CUTTINGS, 100 of a variety.** 250 or more cuttings of any variety billed at the 1000 price. Because of the highly perishable nature of Geranium cuttings, we ship by **AIR FREIGHT ONLY**. 3000 cuttings can be shipped at minimum air freight rates. All cuttings shipped f.o.b. California. Be sure to specify on your order the

airport to which cuttings are to be sent and your telephone number where air freight companies can call you upon arrival of the shipment. Orders for Rooted Cuttings are rooted to order only—allow 6 weeks for delivery. **Be sure to specify on your order whether you want ROOTED, UNROOTED or CALLOUSED cuttings.**

## 2 1/4-INCH PLANTS

The following varieties are grown for us by specialists. Available July through May.

### PREMIUM VARIETIES

Pink Cloud      Enchantress Fiat      Salmon Irene  
Springtime. Light salmon.      Dark Red Irene

Prices above 5, each: \$17.00 per 100; \$160.00 per 1000.

Appleblossom  
Better Times  
Genie. Rose-pink.  
Imp. Ricard  
Irene

Mme. Buchner  
Mme. Landry  
Olympic Red  
Penny. Neon-pink.

Pink Fiat  
Radio Red  
Red Fiat  
Salmon Supreme  
Snowball

Prices above 15 varieties: \$16.00 per 100; \$150.00 per 1000.

**Minimum order, 100 plants.** Shipped f.o.b. Illinois, Connecticut, Colorado, Michigan, New York, Ohio, Texas, New Jersey, Pennsylvania and Wisconsin where available. Your order will be shipped from nearest available source.

# Begonias

## FIBROUS ROOTED BEGONIAS

### 2-Inch Banded Plants DWARF CLASS

Adeline      Luminosa Compacta  
Ball Deep Rose      Tausendschon White  
Red Pearl      Tausendschon Rose  
Pink Pearl      Tausendschon Red

### INTERMEDIATE CLASS

Scandinavia White      Carmen  
Cinderella Rose      Indian Maid  
Cinderella White      Scandinavia Red  
Scandinavia Pink

**Assortment** of above varieties in both the Dwarf and Intermediate class.

For complete descriptions of above listed varieties, see page 11.

**Prices** on above: \$12.00 per 100; \$100.00 per 1000. 250 supplied at the 1000 rate. Shipped in units of 50 plants in our Ball-Pak. Minimum order, 100; 25 of any one variety. Order in multiples of 50. Available September to June. F. O. B. Ohio.

### DOUBLE VARIETIES

Geneva Scarlet      Geneva White  
Westport Beauty. Pink.

**Prices** on above: 2 1/4-inch plants shipped F.O.B. Ohio, \$25.00 per 100. Minimum order, 50 plants per variety. Available fall through June.

## SCANDINAVIAN BEGONIAS (Norwegian)

For Christmas flowering buy 2 1/4-inch in June. For October 15 flowering, buy 2 1/4-inch in April or May, shift to flowering size pots by July 15; black cloth shade between 5 PM and 7 AM beginning August 15 until buds are well set. For April 1 flowering, buy 2 1/4-inch in September and light October 1 to February 1 with 100 watt bulbs placed 3 1/2 feet above plants and 5 feet apart in suitable reflectors. A 55° night temperature is recommended for forcing.

**Tove.** Medium pink, large flowers and leaves. Early.

Karolina      Solbachen      Spirit of Norway

Above varieties are very similar. Color deeper than Tove. Foliage smaller and growth more compact. Flowers normally for Christmas.

Red Solfheim      Dark Marina

Excellent dark pink (almost red) varieties. Compact growers.

**Dark Solbachen.** Dark pink flowers, dark green foliage. Smaller and more compact grower than others. Slower grower but flowers for Christmas.

**Compacta.**

**Prices** on above varieties: \$47.50 per 100; \$425.00 per 1000.

## SCANDIA COLLECTION

50 plants, or multiples of 50 consisting of some of each of the Scandinavian varieties. \$52.50 per 100; \$475.00 per 1000. Packed in cartons of 50 plants each—order accordingly. 250 plants at 1000 rate. Shipped express F.O.B. New York. Available April 15 to August 1.

## MELIOR (Christmas) BEGONIAS

Culture same as outlined above for Scandinavian varieties except forcing temperature should be 60°.

Marjorie Gibbs      Lady Mac      Melior

**Prices** on above: 2 1/4-inch plants, \$42.50 per 100; \$375.00 per 1000.

**Lady Mac Supreme (P.A.F.)** A sport of Lady Mac. Rich glowing deep pink with red flower stems. Leaf distinctively veined; deep green with red-bronze edges. Very compact. Superior for January sales.

**Prices** 2 1/4-inch plants: \$30.00 per 50; \$55.00 per 100; \$500.00 per 1000.

250 plants at the 1000 rate. Varieties (except Lady Mac Supreme) may be grouped for quantity price. Minimum order 50 plants per variety. Order in multiples of 50 plants per variety. Shipped F.O.B. New York.



# Azaleas

## SPECIAL COLLECTION of the Best Varieties of Indicas and Kurumes

Shipped RAILWAY EXPRESS **PREPAID**  
from **CALIFORNIA** to any **CITY**  
in the **UNITED STATES**  
(except Hawaii and Alaska)

With these collections you can have a blooming plant to sell any time from Christmas on to Easter. Merely indicate when you want to have them bloom and they will be shipped at the proper time.

**Why not order a case of each size for every holiday? They'll pay.**

\*4-inch Pot Collection (45 plants) (Approx.  
4 to 5-inch head) .....\$32.50  
6-inch Pot Collection (24 plants) (Approx.  
8 to 10-inch head) ..... 39.50

**SOLD BY POT SIZE ONLY**—No head size guaranteed.  
Available October to March.

\*We do not recommend 4-inch Collection for Christmas blooming.

**PRICES ABOVE ARE TOTAL DELIVERED COST**  
Azaleas when shipped are well budded.

### DORMANT AZALEAS

**Beautifully Shaped and Budded Plants  
Christmas Through Easter Flowering**

**F.O.B. WEST COAST**

(California, Oregon and Washington)

E—Early M—Midseason L—Late

E Chimes	ML Hexe
E Miss Cottage Gardens	ML Sweetheart Supreme
E Eric Schame	L Lentengroot
E Memoire Sanders	L Jean Haerens
E Mme. Petrick	ML Albert and Elizabeth
EM Mme. Petrick Superba	M Dr. Bergman
E Paul Schame	L Prof. Wolters
E Sweet Sixteen	M Dorothy Gish
*M Red Wing (Pat. 1159)	M Perle de Swynaarde

\*Plus 10c each for patent tag.

Assorted sizes: 6x6 to 10x12 inch head. Available October to January 15. Minimum order 50 plants.

**F.O.B. ILLINOIS, MICHIGAN, WEST VIRGINIA,  
NEW YORK and NEW JERSEY**

ML Hexe de Saffelare	ML Sweetheart Supreme
*Plus 10c each for patent tag.	E Coral Bells
	M Alaska
L Jean Haerens	ML Hexe
L Triumph	E Eric Schame
*ML Red Wing (Pat. 1159).	ML Pink Supreme
	E Memoire Sanders

\*Plus 10c each for patent tag.

Assorted sizes 6x8 to 10x12 inch head. Available September to March 1. Minimum order 50 plants.

**WRITE FOR PRICES**



Mrs. Arvilla Kerst (Plant Department Mgr.) displaying a typical Azalea Collection on arrival from California. These top quality plants are neatly packed, ready for forcing.

### AZALEAS FOR GROWING ON KURUME AND PERICAT

**F.O.B. ALABAMA**

E Chimes (5x6 only)  
M Coral Bells  
M Hexe  
M Hexe de Saffelare  
L Hino Crimson  
L Hinodegiri

L Jean Haerens (5x6 only)  
ML Marjorie Ann (5x6 only)  
L Pink Supreme  
\*M Red Wing (Pat. 1159)

ML Sweetheart Supreme  
L Triomphe (5x6 only)  
M Vervaeana Alba (5x6 only)

\*Plus 10c each for patent tag.

#### PRICES

	Per 100	Per 1000
Transplants (minimum order 250) .....	\$17.50	\$150.00
3 x 5 inch spread (minimum order 100) .....	35.00	300.00
5 x 6 inch spread (minimum order 100) .....	45.00	400.00
6 x 8 inch spread (minimum order 100) .....	65.00	600.00

Available early September through June. Less than 250 plants of one variety at 100 rate. 250 or more of one variety at 1000 rate.

**F.O.B. PORTLAND, OREGON**

E Chimes  
E Erie  
E Miss Cottage Gardens  
E Paul Schame  
M Dorothy Gish

M Vander Cruysen  
ML Albert and Elizabeth  
ML Hexe  
ML Hexe de Saffelare  
ML Sweetheart Supreme

L Lentengroot  
\*M Red Wing (Pat. 1159)

\*Plus 10c each for patent tag.

#### PRICES

	Per 100	Per 1000
4 x 6 inch size .....	\$39.00	\$350.00

500 at 1000 rate. Plus packing at cost.

Available March 1 to June 15. Truck or express.

All our plants are shipped from specialist growers.





HELEN TRAUBEL

# Ball Garden Roses

California Grown Exclusively for Geo. J. Ball  
F.O.B. West Chicago

## PATENT HYBRID TEAS

RETAIL Minimum Price	Variety and Description	WHOLESALE PRICE EACH (Price you pay)		
		10 Each	20-90 Each	100-250 Each
\$2.75	<b>Aztec</b> (Pat. 1648). Vivid scarlet-orange . . .	\$1.50	\$1.37 1/2	\$1.30
2.00	<b>Capistrano</b> (Pat. 922). Bright pink . . . . .	1.10	1.00	.95
2.50	<b>Chrysler Imperial</b> (Pat. 1167). Crimson . . .	1.40	1.25	1.20
2.50	<b>Confidence</b> (Pat. 1192). Light pink to yellow	1.40	1.25	1.20
2.25	<b>Diamond Jubilee</b> (Pat. 824). Buff-yellow . .	1.25	1.12 1/2	1.05
2.50	<b>Forty-Niner</b> (Pat. 792). Vivid red and yellow	1.40	1.25	1.20
3.50	<b>*GARDEN PARTY</b> (AARS—Pat. 1814). Pale ivory brushed with pink . . . . .	1.90	1.75	1.65
3.00	<b>Golden Masterpiece</b> (Pat. 1284). Golden yel- low . . . . .	1.65	1.50	1.40
1.85	<b>Golden Scepter</b> (Pat. 910). Yellow . . . . .	1.05	.92 1/2	.85
2.00	<b>Happiness</b> (Pat. 911). Dark red . . . . .	1.10	1.00	.95
2.75	<b>Helen Traubel</b> (Pat. 1028). Pink-apricot . . .	1.50	1.37 1/2	1.30
1.85	<b>K. T. Marshall</b> (Pat. 607). Pink flushed yel- low . . . . .	1.05	.92 1/2	.85
2.50	<b>Lady Elgin</b> (Pat. 1469). Orange-apricot . . .	1.40	1.25	1.20
2.50	<b>Love Song</b> (Pat. 1306). Blend of yellow and deep coppery pink . . . . .	1.40	1.25	1.20
2.25	<b>Lowell Thomas</b> (Pat. 595). Lemon-yellow . .	1.25	1.12 1/2	1.05
2.75	<b>Midnight</b> (Pat. 1542). Velvety deep black- red, fragrant . . . . .	1.50	1.37 1/2	1.30
2.25	<b>Mirandy</b> (Pat. 632). Dark red, fragrant . . .	1.25	1.12 1/2	1.05
2.00	<b>Mission Bells</b> (Pat. 923). Vermilion-pink . .	1.10	1.00	.95
2.75	<b>Mojave</b> (Pat. 1176). Orange . . . . .	1.50	1.37 1/2	1.30
2.50	<b>New Yorker</b> (Pat. 823). Rich red . . . . .	1.40	1.25	1.20
2.25	<b>Nocturne</b> (Pat. 713). Dark red . . . . .	1.25	1.12 1/2	1.05
2.50	<b>Peace</b> (Pat. 591). Yellow edged pink . . . . .	1.40	1.25	1.20
3.00	<b>Pink Peace</b> (Pat. 1759). Pink . . . . .	1.65	1.50	1.40
2.00	<b>Sleigh Bells</b> (Pat. 1004). White, creamy center	1.10	1.00	.95
2.25	<b>Sutter's Gold</b> (Pat. 885). Yellow, shaded red	1.25	1.12 1/2	1.05
2.75	<b>Tiffany</b> (Pat. 1304). Pink, yellow base . . .	1.50	1.37 1/2	1.30
3.00	<b>White Knight</b> (Pat. 1359). Pure white . . . .	1.65	1.50	1.40
2.25	<b>White Swan</b> (Pat. 1115). Pure white . . . .	1.25	1.12 1/2	1.05

\*All-America Rose Selections, 1960.

## GARDEN PARTY



CHRYSLER IMPERIAL





# Ball Garden Roses

## PATENT FLORIBUNDAS

RETAIL Minimum Retail Price	Variety and Description	WHOLESALE PRICE EACH (Price you pay)		
		10 Each	20-90 Each	100-250 Each
\$2.00	<b>Baby Blaze</b> (Pat. 1362). Velvety cherry-red . . . .	\$1.10	\$1.00	\$0.95
2.25	<b>China Doll</b> (Pat. 678). Deep pink. Low growing	1.25	1.12 1/2	1.05
2.50	<b>Circus</b> (Pat. 1382). Bicolor red and yellow . . . .	1.40	1.25	1.20
2.00	<b>Fashion</b> (Pat. 789). Coral-pink . . . . .	1.10	1.00	.95
2.50	<b>*FIRE KING</b> (AARS—Pat. 1758). Brilliant fiery red . . . . .	1.40	1.25	1.20
2.50	<b>Fusilier</b> (P.R.R.). Orange-red . . . . .	1.40	1.25	1.20
2.50	<b>Gold Cup</b> (P.R.R.). Bright yellow . . . . .	1.40	1.25	1.20
1.75	<b>Goldilocks</b> (Pat. 672). Yellow . . . . .	1.00	.87 1/2	.80
2.75	<b>Ivory Fashion</b> (Pat. 1688). Ivory . . . . .	1.50	1.37 1/2	1.30
2.00	<b>Jiminy Cricket</b> (Pat. 1346). Coral-orange . . . .	1.10	1.00	.95
2.00	<b>Ma Perkins</b> (Pat. 1143). Coral-shell-pink . . . .	1.10	1.00	.95
1.75	<b>Pink Bountiful</b> (Pat. 601). Deep rose-pink . . . .	1.00	.87 1/2	.80
2.00	<b>Pinkie</b> (Pat. 712). Pink . . . . .	1.10	1.00	.95
1.75	<b>Pinocchio</b> (Pat. 484). Rich salmon . . . . .	1.00	.87 1/2	.80
1.75	<b>Red Pinocchio</b> (Pat. 812). Carmine . . . . .	1.00	.87 1/2	.80
2.50	<b>*SARABANDE</b> (AARS—Pat. 1761). Large, bril- liant orange-red . . . . .	1.40	1.25	1.20
1.75	<b>Siren</b> (Pat. 1197). Vivid red . . . . .	1.00	.87 1/2	.80
2.50	<b>Spartan</b> (Pat. 1357). Reddish coral . . . . .	1.40	1.25	1.20
2.00	<b>Sumatra</b> (Pat. 1572). Red . . . . .	1.10	1.00	.95
2.00	<b>Valentine</b> (Pat. 1029). Bright red . . . . .	1.10	1.00	.95
2.00	<b>Vogue</b> (Pat. 926). Cherry-coral . . . . .	1.10	1.00	.95
2.50	<b>White Bouquet</b> (Pat. 1415). White . . . . .	1.40	1.25	1.20
1.50	<b>Yellow Pinocchio</b> (Pat. 992). Yellow . . . . .	.90	.75	.70

\*All-America Rose Selections, 1960.

No. 1 1/2 Grade 20% less than No. 1. Write us for special prices on more than 250 of any patented varieties. MINIMUM ORDER 10 PLANTS OF A VARIETY. ORDER IN MULTIPLES OF 10. Prices are "per variety" on all patent varieties regardless of total number of bushes you order.

**WHICH GRADE OF ROSES SHOULD YOU BUY?** Ball Garden Roses are graded according to standards established by the American Association of Nurserymen. This grading system assures you of quality bushes! No. 1 grade Roses are the heaviest bushes, therefore will produce the largest plants in the garden. No. 1 1/2 grade bushes are in no sense culls or any the less salable plants.

SARABANDE



CIRCUS

FASHION



FIRE KING





# Ball Garden Roses

## PATENT GRANDIFLORAS

RETAIL Minimum Retail Price	Variety and Description	WHOLESALE PRICE EACH (Price you pay)		
		10 Each	20-90 Each	100-250 Each
\$2.50	<b>Buccaneer</b> (Pat. 1119). Sunshine-yellow . . . . .	\$1.40	\$1.25	\$1.20
2.00	<b>Carrousel</b> (Pat. 1066). Deep rich red . . . . .	1.10	1.00	.95
3.00	<b>EL CAPITAN</b> (NEW—Pat. 1796). Radiant cherry-red . . . . .	1.65	1.50	1.40
2.75	<b>Montezuma</b> (Pat. 1383). Scarlet-orange . . . . .	1.50	1.37 1/2	1.30
2.50	<b>Queen Elizabeth</b> (Pat. 1259). Delicate pink . . . .	1.40	1.25	1.20
2.50	<b>Roundelay</b> (Pat. 1280). Vivid glowing red . . . .	1.40	1.25	1.20
3.00	<b>Starfire</b> (Pat. 1742). Red . . . . .	1.65	1.50	1.40

No. 1 1/2 grade 20% less than No. 1. Write us for special prices on more than 250 of any patented varieties. MINIMUM ORDER 10 PLANTS OF A VARIETY. ORDER IN MULTIPLES OF 10. Prices are "per variety" on all patent varieties regardless of total number of bushes you order.

## PATENT CLIMBERS

RETAIL Minimum Retail Price	Variety and Description	WHOLESALE PRICE EACH (Price you pay)		
		10 Each	20-90 Each	100-250 Each
\$2.50	<b>Cl. Aloha</b> (Pat. 948). Coral-pink . . . . .	\$1.40	\$1.25	\$1.20
2.75	<b>Cl. Chrysler Imperial</b> (Pat. 1528). Flaming red . . . .	1.50	1.37 1/2	1.30
2.50	<b>Cl. Crimson Glory</b> (Pat. 736). Deep red . . . . .	1.40	1.25	1.20
2.75	<b>Cl. Golden Showers</b> (Pat. 1557). Yellow . . . . .	1.50	1.37 1/2	1.30
2.25	<b>Cl. Peace</b> (Pat. 932). Yellow, edged pink . . . . .	1.25	1.12 1/2	1.05

No. 1 1/2 grade 20% less than No. 1. Write us for special prices on more than 250 of any patented varieties. MINIMUM ORDER 10 PLANTS OF A VARIETY. ORDER IN MULTIPLES OF 10. Prices are "per variety" on all patent varieties regardless of total number of bushes you order.

EL CAPITAN

## STANDARD HYBRID TEAS

### YELLOW

Eclipse  
Golden Dawn  
Joanna Hill  
McGredy's Yellow  
Mrs. E. P. Thom  
Mrs. P. S. DuPont  
Soeur Therese

### PINK

Editor McFarland  
Margaret McGredy  
Peters Briarcliff  
Picture  
Pink Dawn  
Pink Radiance  
The Doctor

### BICOLOR

Autumn  
Condesa De Sastago  
Countess Vandal  
Pres. Hoover  
Talisman

### RED

Ami Quinard  
Better Times  
Charlotte Armstrong  
Christopher Stone  
Crimson Glory

Etoile De Hollande  
McGredy's Scarlet  
Red Pres. Hoover  
Red Radiance  
Poinsettia

### WHITE

Frau Karl Druschki  
K. A. Victoria  
McGredy's Ivory

## STANDARD FLORIBUNDAS

### RED

Eutin  
Floradora  
Frensham  
Imp. Lafayette  
World's Fair

### PINK

Betty Prior  
Cecile Brunner  
Else Poulsen  
Pinocchio  
Rosenelfe

### WHITE

Dagmar Spaeth  
Summer Snow

## STANDARD CLIMBERS

### RED

Cl. Blaze  
Cl. Etoile De Hollande  
Cl. Paul's Scarlet

### YELLOW

Cl. Gold Rush  
Cl. Yellow Talisman

### PINK

Cl. New Dawn  
Cl. Pink Radiance

### BICOLOR

Cl. Talisman

### WHITE

Cl. Snowbird

## PRICES STANDARD VARIETIES

	Per 10	Per 100	Per 1000
No. 1 Grade . . . . .	\$6.50	\$60.00	\$550.00
No. 1 1/2 Grade . . . . .	5.25	47.50	425.00

All Rose bushes sold in units of 10 plants of a variety and grade or multiples of 10. Standard varieties may be grouped for quantity rate. 1000 rate applies only on orders for 1000 or more standard varieties.

## BIRD PERENNIAL POTS



Garden Roses already started in pots bring premium prices and satisfied customers.

The Perennial Pot is ideal for this purpose—made of a tough, durable material with a hard, smooth coating inside and out—solid stapled bottom with openings for drainage. Height, 9 1/2 in. Top diameter, 7 in.

### PRICES

	Top Dia.	Wt. per 1000	Per Case of 200	Per 1000
Height				
9 1/2 in.	7 in.	355 lbs. . . .	\$14.50	\$69.00

Minimum order, case of 200. Three cases at 1000 price. Prices net, F.O.B. our West Chicago warehouse or factory near Boston.

### IMPORTANT!

Prices quoted at left are F.O.B. West Chicago, or F.O.B. Baltimore, New Jersey or Pittsburgh if your order totals 100 or 250 plants or multiples thereof (our standard packing case sizes) and if your order is received by us before November 10.



# Ball Forcing Pot Roses

Our Roses for pot forcing are budded to our order by a West Coast specialist. As a result of years of experience, we are confident that no finer plants are available at any price. We earnestly suggest placing your order with us EARLY so we can furnish you the varieties and grades you need. Our pot forcing Roses are budded for us 2 years in advance. When

our crop of a variety is booked up, we are sold out for the season. All orders accepted in the order of their receipt. Shipment December through February. We recommend XXX grade plants for large specimen plants and XX grade for medium sized plants. Varieties we particularly recommend are starred (\*).

## PATENT VARIETIES

**Thunderbird** (Pat. 1677). Brilliant, velvety scarlet sport of Garnette.  
**Skylark** (Pat. 1678). Beautiful clear pink sport of Carol Amling.  
**Carol Amling** (Pat. 1126). A light coral-pink sport of Garnette. Excellent.  
**Crimson Rosette** (Pat. 901).

Prices on each of above patented varieties:

### XXX GRADE

10 plants, \$1.00 each; 20-90 plants, 87½¢ each; 100-250 plants, 80¢ each; more than 250 plants, 75¢ each.

Minimum order 10 of a variety.

### XX GRADE

10 plants, 80¢ each; 20-90 plants, 70¢ each; 100-250 plants, 64¢ each; more than 250 plants, 60¢ each.

Minimum order 10 of a variety. Prices on patented varieties are per variety. Patented varieties cannot be grouped with standards for quantity prices.

## STANDARD VARIETIES

**Bright Pink Garnette**. A bright, deep pink sport of Garnette. Large flowered.

**Dick Koster**. Bright salmon-rose.

**Garnette**. This popular Floribunda cut-flower variety is excellent for pot forcing. Attractive bronzy green foliage and rich red flowers.

**Gloria Mundi**. Salmon.

**Magna Charta**. Bright pink.

**Margo Koster**. The popular salmon-orange with globular shaped flowers.

**Mothersday**. A red sport of Margo Koster. Excellent for Easter and later.

**Summer Snow**. Pure white.

**Triumphe d'Orleans**. Carmine or cherry-red.

Prices on above standard varieties:

XXX GRADE. 70¢ each or 60¢ each for orders totaling 1000 or more. Minimum order 10 of a variety.

XX GRADE: 60¢ each or 45¢ each for orders totaling 1000 or more. Minimum order 10 of a variety.

### SPECIAL CASE PRICE ON STANDARD VARIETIES ONLY:

Case of 100 plants, XXX grade .....\$ 65.00  
 Case of 200 plants, XXX grade ..... 130.00  
 Case of 160 plants, XX grade ..... 72.50

All standard varieties may be grouped to take advantage of lowest quantity price. Packing on Pot Forcing Roses charged at cost.

## OUR SPECIAL POT FORCING ROSE COLLECTION

### All XXX Grade Plants

40 Triumphe d'Orleans	10 Margo Koster
20 Garnette	10 Magna Charta
10 Dick Koster	10 Bright Pink Garnette

\$67.50 including packing charge.

Orders for case lots or more including our special pot Rose forcing collection received by us before November 1 may be shipped f.o.b. West Chicago, New Jersey, Pittsburgh, or Minnesota. All other orders shipped f.o.b. West Chicago. Minimum order, 10 plants of a variety.

## TRY MINIATURE ROSES

The following varieties are excellent for border work. All are very hardy. Those best adapted for pot forcing are starred (\*); may be flowered in 6 weeks in a 60° night temperature. They are furnished as "own root" 3-inch plants in a dormant condition. Delivery f.o.b. Pennsylvania, fall through spring. Cultural instructions with each order or on request.

**Baby Gold Star** (Pat. 407). Golden yellow. To 14 in. high.

\***Cinderella** (Pat. 1051). Cream-white sometimes tinged cameo-pink. Double. Extra fine Hybrid Tea form. Thornless and grows to 10 in. high.

**Midget** (Pat. 466). The tiniest rose-red. Fully double miniature. Almost thornless. To 9 in. high.

\***Pixie** (Pat. 408). The smallest double white Rose. Shows pink shading in cool weather. To 8 in. high.

\***Red Imp** (Pat. 1032). Deep, rich crimson. Very double, almost star-shaped flowers. To 10 in. high.

**Robin** (P.A.F.) New, 1957 bright red. Compact plants and very free blooming. To 10 in. high.

\***Sweet Fairy** (Pat. 748). Pink buds open to double, 1-inch flowers of apple-blossom-pink. Fragrant. To 10 in. high.

**Tinker Bell** (Pat. 1293). Bright vivid pink. Very double, long lasting blooms. Very hardy. To 8 in. high.

**Tom Thumb** (Pat. 169). Crimson buds lighten as blooms open into well formed, perfect, tiny Roses. To 9 in. high.

**Bo-Peep** (Pat. 976). Very double shell-pink. Excellent habit.

Prices above Miniatures, each: 10-99 plants, 62½¢ each; 100-249 plants, 57½¢ each; 250 or more plants, 50¢ each.

Minimum order 50 plants, 10 of a variety. Varieties cannot be combined for quantity prices. Suggested retail price, \$1.25 each.

### MINIATURE TREE ROSES

Miniature Roses are easy to grow, winter hardy, and can be used as pot plants in a sunny window. They are not year-round house plants, and should be given a rest out-of-doors in the fall. We supply dormant plants or just started plants in late spring or early fall from 3-inch pots with about 1/3 of the soil removed for shipment. Safely shipped at any season. \$2.00 each, f.o.b. West Grove, Pa.

**Baby Gold Star**  
**Midget** (pictured at right)  
**Sweet Fairy**

**Bo-Peep**  
**Pixie**  
**Tinker Bell**

**Cinderella**  
**Red Imp**  
**Tom Thumb**

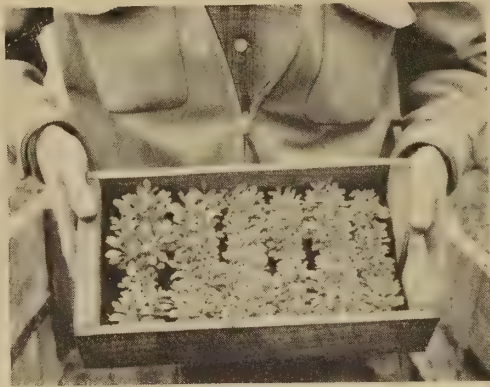
MIDGET TREE ROSE





# BEDDING PLANTS - - Seedlings

Available in Flats November 1 to May 1



Shipped in flats by railway express.

Superb seedlings for replacement, addition, or total production. These fine seedlings are ready to transplant upon arrival at your greenhouse. Don't let loss or lack of seedlings reduce income. **BUY SEVERAL FLATS TODAY.** 300 plants guaranteed (generally many more). \$5.00 per flat, f.o.b. shipping point.

**PETUNIAS** Ball All-Double Mixture, Ball California Giants No. 1, Comanche, Red Satin, Tango, White Magic, Popcorn, Pink Magic, Chiffon, Ballerina, Maytime, Blue Magic, Blue Lustre, Bingo, Crusader.

**ALYSSUM** Pink Heather, Royal Carpet, Carpet of Snow.

**AGERATUM** Blue Mink.

**COLEUS** Ball Rainbow Mixture.

**DAHLIA** Unwin's Dwarf Mixture.

**IMPATIENS** Dwarf Mixture.

**PHLOX** Globe Mixture.

**SALVIA** St. John's Fire.  
**SNAPDRAGONS** (Outdoor) Hit Parade Mixture, Rocket Mixture.  
**VERBENA** Ideal Florist Mixture, Spectrum Red.  
**VINCA** (Periwinkle).

## COLEUS-PETUNIA COLLECTION

1 flat each of 5 Hybrid Petunia varieties (1 white, 1 red, 1 blue, 1 pink, and 1 variegated), and 1 flat of Coleus Ball Rainbow Mixture.  
**6 flats (Collection) for \$24.50.**

## MISCELLANEOUS PLANTS

### AGERATUM

Available September to March. Shipped F.O.B. Illinois, Indiana, Ohio, Pennsylvania, and Massachusetts.

**Blue Boy**

**Imp. Riverside** (blue)

**New Masterpiece** (blue)

**Purple Beauty**

**Devon Blue**

**New Pink**

**White**

**Rooted Cuttings** of the above varieties: \$3.50 per 100; \$30.00 per 1000.

**2 1/4-inch plants** of the above varieties: \$10.00 per 100; \$90.00 per 1000. 500 plants at 1000 rate. Minimum order 250, 100 of a variety.

### AZALEAS

See page 77 and write for further lists.

### REX BEGONIA

Five to seven varieties in each shipment.

**2 1/4 inch.** Packed in cartons of 50 only.

**Prices:** \$35.00 per 100; \$300.00 per 1000. 250 at 1000 rate.

Shipped via express F.O.B. Lockport, New York. 5% packing charge Nov. 1 to April 1 as insulated cartons are used. Growing suggestions sent on all orders. For other Begonias, see page 76.

### BLEEDING HEART

(Dicentra Spectabilis)

Field-grown clumps F.O.B. Pennsylvania October 15 to April 1. Minimum order 25 clumps. 3-5 eyes, 40c each; 5-8 eyes, 55c each.

## CACTI AND SUCCULENTS

Write for prices.

### CALCEOLARIA

We suggest potting either cuttings or 2 1/4's directly to 5-inch pots. Keep plants on dry side and give cheesecloth shade during spring and summer. Temperature 48 to 50°. All plants shipped F.O.B. New York. 2 1/4's available Sept. to Dec. Minimum order 100.

#### VARIETIES GROWN FROM SEED for EASTER FLOWERING:

**2 1/4-inch plants** \$20.00 per 100; \$180.00 per 1000.

**Multiflora Nana.** Excellent strain. **Multiflora Nana, Gilbert's Strain.**

**Triumph.** Shades of yellow, orange and red.

#### SPECIAL CALCEOLARIA ASSORTMENT

2 1/4 in. 50 plants of Mother's Day cutting varieties, and 50 plants of seedling varieties. Available Sept. to Dec. F.O.B. New York. **Assortment** (100 2 1/4-inch plants), \$20.00.

#### VARIETIES FROM CUTTINGS for MOTHER'S DAY FLOWERING:

**2 1/4-inch plants** \$30.00 per 100; \$275.00 per 1000.

**Greater New York.**

**Pure Flame.** Red.

**Stewartii.** Yellow.

**Imp. Perfection.** Yellow, orange.

**Golden Talisman.** Amber.

**Mary Louise.** Red.

**Pink Perfection.** Pink.

**Suzanne.** Yellow.

## CARNATIONS

See pages 68-71.

## CYCLAMEN

Write for prices.

### DRACAENA

**Indivisa.** The popular plant for planting in urns and combinations. Delivery September through March. F.O.B. Wisc., Ohio, and Mass. Minimum order 100 plants. 2 1/4-inch plants, \$12.50 per 100; \$110.00 per 1000. 3-inch plants, \$20.00 per 100; \$195.00 per 1000.

## FOLIAGE PLANTS

### FUCHSIA

	Rooted Cuttings		2 1/4-in. Plants	
	Per 100	Per 1000	Per 100	Per 1000
<b>Little Beauty.</b> Double. Red petals with purple bell. Dwarf	\$8.00	\$78.50	\$14.00	\$135.00
<b>Hollydale.</b> Double. Rose petal with violet bell	7.00	65.00	13.00	125.00
<b>Winston Churchill.</b> Double rose petal with violet bell	7.00	65.00	13.00	125.00
<b>Bagdad.</b> Double	6.75	62.50	12.50	120.00
<b>Lord Byron.</b> Double dwarf red	6.75	62.50	....	....
<b>Black Prince.</b> Tall pink	6.75	62.50	12.50	120.00
<b>Pride of Orion.</b> Tall double red with white bell	6.75	62.50	12.50	120.00
<b>Giant Pink.</b> Double tall pink	6.75	62.50	12.50	120.00

500 of above cuttings or 2 1/4-inch plants billed at the 1000 rate. **Minimum rooted cutting order 250; 2 1/4-inch, 100.** Shipped F.O.B. Pennsylvania, Indiana and Massachusetts.

### GERANIUMS

See page 76 for 2 1/4-in. and cuttings.

### GLOXINIAS

Grow Gloxinias from Ball Seedlings!

Modern seedling strains of Gloxinias are fast gaining favor as a quick pot plant crop. The newer seedling varieties feature brilliant colors and small, leathery leaves that stand packing and shipping well.

A few cultural pointers:

1. Pot seedlings immediately upon arrival directly into 5- or 6-inch pots.
2. Use a sterilized mixture of 1/2 peat moss or leaf mold and 1/2 sandy loam.
3. Water frequently and lightly. Never allow to completely dry out. Never wet foliage. Keep atmospheric humidity high.
4. Temperatures of 64 to 68° are ideal the year round.
5. Shade with cheesecloth during bright summer days.
6. Feed with a weak solution of ammonium sulfate twice a month.

**BALL GLOXINIA SEEDLINGS WILL FLOWER IN 3 to 4 MONTHS FROM PLANTING. THEY CAN BE GROWN THE YEAR ROUND. TRY THEM!**

**Imp. Red Velvet.** Cardinal-red.

**Royal Velvet.** Deep purple.

**New Cherry Belle.** Cherry-red; white border.

**Pink Pearl.** Rose-red; white center.

**Snow Bird.** Pure white.

**Purple Cloud.** Purple; white center.

**Imp. Colossal Hybrids.** Soft pink to red and wine colors.

**Crimson Belle.** Red; white border.

**Purple Belle.** Purple; white border.

**Special Formula Mixture.** Made up of approximately 50% solid red; 15% solid blue-purple types; 15% red and white combinations; 15% blue-purple and white combinations; and 5% solid white.

Above plants shipped in 2-inch Ball Plant Bands F.O.B. Florida. Price on all varieties and mixture: \$20.00 per 100; \$180.00 per 1000. **Minimum order 100 plants,** 25 of a variety. 250 or more plants billed at the thousand rate. Particularly on separate color varieties, we would like to have 30 days notice for shipment. These are all seedling strains—don't confuse them with varieties propagated and sold as tubers.

All our plants are shipped from specialist growers.





## SAFTI-PAK Gloxinia Seedlings

Each 2¼-inch plant is protected by an individual SAFTI-PAK container to assure you of a safe delivery. Note the careful way in which each tender seedling is nestled in its own protective shell.

**Sovereign.** Crimson-red.

**Imperial.** Brilliant scarlet.

**Sapphire.** Dark purple.

**Blue Star.** Medium blue, ivory throat.

**Ave Maria.** Pure white.

**Assorted varieties.**

Prices above, each: **\$25.00** per 100; **\$225.00** per 1000. 500 plants billed at 1000 rate. **Minimum order 100 plants,** 25 of a variety. **F.O.B. Louisiana.**

Shipping weight 17-20 lbs. Winter packing \$1.00 per carton—no packing at other times of year.

Available year round. Immediate shipments subject to minor substitutions of varieties within the same color range.

## GROUND COVER and IVY

### AJUGA

**Metallica Crispa.** Tolerates either sun or shade. Retains a deep purple metallic sheen, with short-stemmed blue flowers in late April.

### EUONYMUS FORTUNEI

**Acutus.** A desirable evergreen ground cover, suitable for shade or sun. Leaf pleasing green in summer, becoming bronzy in fall and winter.

**Coloratus.** The purple leaf winter creeper is very vigorous. Best known of all evergreen ground covers. Withstands heavy shade; suitable for foundation and wall cover.

**Kewensis.** Among the very neatest of all the evergreen winter creepers. Small delicate leaf size, making a dainty heavy carpet. Ideal for small, refined positions near foundations or as underplanting.

Prices above 3, each: **\$15.00** per 100; **\$140.00** per 1000. 250 at 1000 rate. **F.O.B. Indiana.** Shipped March, April, May, and June. **Minimum order 100,** 50 of a variety.

### HEDERA HELIX

**MBG Bulgaria.** Large-leaved, fast-growing variety; very suitable for shady areas, developing an even height and forming a smooth green carpet. Introduced by Missouri Botanical Gardens. Its value became best known after severe winters during which other varieties were either killed to the ground or badly damaged.

**Longfellow.** A selected hardy kind which originated at the home of Henry Wadsworth Longfellow, and has withstood extremely variable Indiana weather conditions for many years. One of our most beautiful and dependable Ivies for ground cover, wall or tree, in shaded or partially shaded areas. Color is good; leaf size is slightly smaller than **Bulgaria** and **Thorndale**.

**Thorndale.** Another recent introduction often referred to as "sub-zero Ivy", originating on the north shore of Chicago. Deep green glossy leaves, very pleasing as ground cover. All the hardy Ivies are ideal used indoors in planters or small containers; though they are primarily developed for outside hardiness.

Prices above 3, each: **\$17.00** per 100; **\$160.00** per 1000. 250 at 1000 rate. **Minimum order 100, 50 of a variety.** **F.O.B. Indiana.** Shipped March, April, May, and June. Packed 50 pot plants per carton.

## GYPSOPHILA

**Bristol Fairy.** The popular perennial "Gyp". We offer 2¼-inch plants for spring delivery from Ohio, **\$25.00** per 100 or **\$225.00** per 1000. One-year field-grown stock, October delivery from Ohio, **\$40.00** per 100. **Minimum order 100 plants.**

## LANTANA

We offer Lantana 2¼'s in the following varieties for shipment October to May.

**Alba Perfecta.** Best white.

**Craigi.** Deep red shading to yellow.

**Delicatissima.** Yellow shading to pink.

**Dwarf Beauty.** Pink shading to yellow.

**Dwarf Buckeye.** Red shading to yellow.

**Gold Mound.** Trailing golden yellow.

**Golden King.** Lemon-yellow.

**Golden Pillar.** Bright gold, upright.

**Golden Queen.**

**Jacob Schultz.** Red.

**La Pleur d'Or.** Burnt-orange.

Prices above varieties, each: **\$12.00** per 100.

**Minimum order 100 plants.** **F.O.B. Ohio.**

**Lady Olivia.** Yellow shading to pink.

**Michael Schmidt.** Red shading yellow.

**Radiation.** Red, orange and yellow center.

**Sensation.** Pink shading to yellow.

**Silver Mound.** Trailing creamy white.

**Snow White.** White.

**Southern.** Yellow to buff.

**Sunset.** Yellow and red.

**Tethys.** Cream shading to canary-yellow.

**Weeping.**

## PANSY

Available fall, 1960. See page 95.

## PERENNIALS

Write for prices on our complete list of perennials.



## 2¼-INCH POINSETTIAS

	Per 100	Per 1000
<b>Barbara Ecke Sup.</b>	<b>\$25.00</b>	<b>\$225.00</b>
<b>Indianapolis Red</b>	<b>25.00</b>	<b>225.00</b>
<b>Ecke White</b>	<b>22.50</b>	<b>200.00</b>
<b>Ecke Pink</b>	<b>22.50</b>	<b>200.00</b>

Available August through October 1960. Shipped f.o.b. Illinois, Michigan, Indiana, California, Florida, Missouri, Minnesota, Texas, Oklahoma, and New York, where available. **Minimum order 100.** 250 or more of a variety at 1000 rate. Above

prices were in effect for the 1959 season and are subject to change.

**Poinsettia Stock Plants** (California-grown). Available early spring.

## PRIMULA

**MALACOIDES.** Our plants are 2¼-inch size, shipped Sept. to Jan.

**Alba**

**Lilac Beauty**

**Brilliantcy**

**Mrs. Erickson**

**Glory of Riverside**

**\$12.00** per 100; **\$100.00** per 1000. **Minimum order 250 plants in multiples of 50;** 25 plants of a variety. Shipped **F.O.B. New Jersey.**

**OBCONICA.** 2¼-inch plants shipped from June to December.

\***Alba**

**Friesdorfer.** Salmon.

\***Coerulea** (Sky Blue)

**Mohnstein's Red**

\***Fasbender's Red**

\***Mueller's Rosea**

**\$12.00** per 100; **\$100.00** per 1000. **Minimum order 250, in multiples of 50;** 25 of a variety. Shipped **F.O.B. New Jersey.**

\*Also available **F.O.B. Ohio.**

## ROSES

See pages 78-81.

## SNAPDRAGONS

Have trouble germinating Snap seed during the hot summer months? Buy our 2-inch banded plants. Our plants are produced by specialists from Orig. F<sub>1</sub> Hybrid seed. Our Ball-Pak method of shipping assures plants arriving in tip-top shape.

For an early January crop grown on raised beds at 50°, plant 2-inch banded plants Oct. 5 for an unpinched crop, or Sept. 5 for a pinched crop. For an early March crop, plant 2-inch banded plants Nov. 10 for an unpinched crop, or Oct. 10 for a pinched crop. For early May flowering, plant 2-inch banded plants Feb. 1 for an unpinched crop, or Jan. 1 for a pinched crop. All the following varieties except Hercules and Golden Spike, we recommend for flowering from March on. Please specify whether you want plants pinched or unpinched.

**Cherokee.** True scarlet-red.

**Christina.** Medium light pink.

**Citation.** Ivory-white.

**Doubloon.** Deep bright yellow.

**Gallant Fox.** Orange-bronze.

**Golden Spike.** Golden yellow.

**Hercules.** Late light pink.

**Lavender Lady.** Rosy lavender.

**Libby.** Dark rose.

Shipped f.o.b. Illinois or Ohio. **Minimum order 250 plants,** 25 of a variety. Please order in multiples of 50 plants. 250 plants billed at the 1000 rate. Available August through March.

Prices above Snapdragon plants, **\$65.00** per 1000.

## VERBENA

Strong rooted cuttings. Write for prices.

## VINCA VINES (Variegated)

2¼-in. **Minimum order 100 plants.** Available November to March. **\$12.00** per 100; **\$110.00** per 1000.

**Rooted Cuttings.** Available October to February. **Minimum order 250.** **\$5.00** per 100; **\$42.50** per 1000.

Vinca vines f.o.b. Illinois, Indiana, Ohio, and Massachusetts. 500 or more at 1000 rate.



**DOUBLOON**

**Navajo.** Best red.

**Pink Ice.** Rose, white lip.

**Sierra.** Early and midseason white.

**Snowman.** Pure white.

**Spanish Lady.** Early light pink.

**Treasure Chest.** Clear, medium rose.





Left to right:  
J. Morton Nathan,  
Robert Read, and  
Gus Tidwell

Jack Weinstock,  
Atlanta, Ga.  
(See opposite page)

# Croft **BALL CROWN LILIES** Ace

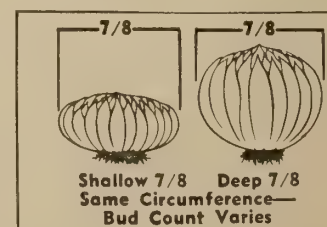
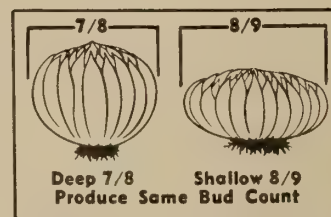
For many years Croft and Ace Lilies have been hand graded by circumference.

Three years ago our company undertook tests to determine the practicability of grading Lily bulbs by weight, with the objective of greater uniformity of bud count, height and blooming date.

Our tests and those of State Universities have proved beyond question that there is a greater correlation between weight and bud count than between circumference and bud count. Hence bulbs graded by weight are substantially more uniform. Or to put it another way, bud production of a Lily is—other factors being equal—controlled by weight. The heavier the bulb, the more buds. The old practice of grading by circumference alone doesn't allow for variation in shape and depth

of bulbs caused by cultural methods in the field. Hence a 7-8 grade heavy, deep bulb can weigh as much as an 8-9 shallow bulb, and will produce as many buds. This illustrates how uniformity of bud count is achieved by weight grading.

Or the other way, a heavy, deep 7-8 bulb will produce more buds than a shallow 7-8 bulb. This illustrates how size-graded bulbs can vary in bud count within a given grade (see diagram at right). Consult chart on opposite page for comparable grades.







← WEINSTOCK'S (Opposite page)

"In our test of your weight graded Lilies, we didn't take actual counts, but you could see that there was a greater evenness of bud count—few 2's and 3's were in evidence. We like this idea of weight grading."—Jack Weinstock, Weinstock Flower Shop, Atlanta, Ga.

G. & E. GREENHOUSES (Above)

"We think you've really got something in weight grading Lilies. Our test sample this spring forced much more uniformly than our regular crop. It seems to me that grading these bulbs by weight can't help but result in a more uniform crop. It makes sense."—Chuck McCannon of G. & E. Greenhouses, Des Plaines, Ill. Henry Schneider, Chuck McCannon and Ronnie McCannon in the photo, showing G. & E.'s 1959 crop of Ball Lilies, including crown type.

## Read these comments about Weight Graded Lilies . . .

"Our test of Crown Lilies came mostly 4's, with a few 3's, 5's and 6's. A very satisfactory Lily and noticeably more uniform than most other commercial Lilies."—J. W. Weatherford, Southern Floral Company, Houston, Texas.

"In our test of your weight graded Crown Lilies in spring, 1959, we found that they were more uniform in bud count and emerged somewhat earlier than regular Crofts. In answer to the \$64,000 question—

yes, we preferred the Crown Croft."—D. C. Kiplinger, The Ohio State University.

"Your test case of weight graded Lilies was much more uniform than the rest of the Crofts we tested, and forced ten days earlier. Mostly 4's and 5's."—J. B. Gartner, University of North Carolina.

"The Ball Crown came in more even than the rest of our crop, mostly all 6 to 7 buds per plant, and they also seemed to emerge more evenly."—Henry Lovell, Rocky River, Ohio.

**You have much to gain—and nothing to lose. Try weight graded Lilies—order Ball Crown Croft and Ace today!**

Comparable Size Grade	BALL CROWN CROFT/ACE Weight Graded	No. of Bulbs Per Case	COMMENT
10 up	Grade No. 100 "SUPER JUMBO"	100	A premium grade of heavy uniform bulbs of maximum bud count.
9/10	Grade No. 150 "JUMBO"	150	Comparable to size grade 9/10. Heavy, uniform bulbs and bud count.
New Grade	Grade No. 175 "FANCY"	175	A new grade between 8/9 and 9/10 size grades in weight and bud count.
8/9	Grade No. 200 "STANDARD"	200	Comparable to size grade 8/9.
7/8	Grade No. 250 "COMMERCIAL"	250	Comparable to size grade 7/8. Contains more uniform, slightly heavier bulbs.



Carl Ball and Phil Jones check over a bench of Lily Bulb Trials in our greenhouse at West Chicago. Each of our grower's sizes of Croft and Ace Lilies is checked each year for trueness of type, bud count, freedom from disease and uniformity.



# Japanese Grown Lilies

## ERABU

The most widely grown white trumpet Lily for midwinter and spring flowering. Bulbs available from early September on.

Size	Bulbs per case	F.O.B. West Chicago, Kansas City, Dallas, Toledo or Philadelphia
		Per case
6- 8 .....	400	\$43.50
7- 9 .....	300	41.50
7- 9 .....	150 (Baby case)	26.50
8-10 .....	225	39.50
8-10 .....	100 (Baby case)	22.50
9-10 .....	200	39.50
9-10 .....	100 (Baby case)	26.50
10-11 .....	150	38.50

## PLATYPHYLLUM

A variety of Auratum with less spotting. Bulbs available from December through April.

Size	Bulbs per case	F.O.B. West Chicago or Philadelphia
7- 9 .....	250	\$38.00
8- 9 .....	200	38.00
9-10 .....	140	38.00

## ALBUM

A pure white Speciosum—reflexed. Handled the same as Rubrums. Shipped from December through July.

Size	Bulbs per case	F.O.B. West Chicago or Philadelphia
6- 8 .....	330	\$82.50
7- 9 .....	250	82.50
8- 9 .....	200	82.50
9-10 .....	140	82.50

## GIGANTEUM

A standard white trumpet cut-flower Lily. Bulbs available from December through July.

Size	Bulbs per case	F.O.B. West Chicago or Philadelphia
7- 9 .....	300	\$45.00
8-10 .....	225	48.00
9-10 .....	200	53.00

## RUBRUM (Speciosum)

The most commonly grown colored cut-flower Lily. Reflex-shaped flowers, carmine-pink, with crimson spots. A good garden Lily for counter bulb sales. Bulbs available December through July.

Size	Bulbs per case	F.O.B. West Chicago or Philadelphia
7- 9 .....	250	\$41.00
8- 9 .....	200	41.00
9-10 .....	140	40.00
9-11 .....	125	40.00
10-11 .....	100	40.00

## AURATUM

The popular Gold-Band Lily. Excellent for greenhouse forcing. Also a good counter sale bulb item. Bulbs available December through February.

Size	Bulbs per case	F.O.B. West Chicago or Philadelphia
7- 9 .....	250	\$35.00
8- 9 .....	200	35.00
9-10 .....	140	35.00
10-11 .....	100	35.00

## AMERICAN-GROWN LILIES

### GEORGIA LILY (Florida-Grown)

Although some growers use the Georgia Lily for Easter pot plants, most Georgias are grown for the earliest cut-flower crop. Properly pre-cooled bulbs planted in mid-September will flower in early January. Bulbs available from September on.

Size	Bulbs per case	F.O.B. Atlanta, Philadelphia, West Chicago cold storage
6½-7 .....	300	\$55.00
7- 8 .....	250	62.50
8- 9 .....	200	67.50
9-10 .....	150	62.50
10-up .....	100	55.00

Georgia-grown Georgia Lilies also available. Write for prices.

### AURATUM PLATYPHYLLUM

Size 7-8 \$50.00 per 100.  
Size 8-9 \$65.00 per 100.  
F.O.B. Oregon. October delivery.

### ALBUM (White Rubrum)

Speciosum—White Champion Strain  
Size 7-8 \$56.00 per 100.  
Size 8-9 \$72.00 per 100.

### RUBRUM (Carmine-Pink)

Speciosum—Red Champion Strain.  
Size 7-8 \$32.00 per 100.  
Size 8-9 \$45.00 per 100.  
F.O.B. Oregon. October delivery.

### ESTATE

Size	Bulbs per case	Per case
7- 8 .....	250	\$55.00
8- 9 .....	200	72.50
9-10 .....	150	65.00



Below: Rubrum (Speciosum)





GOLDEN HARVEST



BLUE RIBBON



WHITE PERFECTION



WEDGEWOOD

## Dutch Iris

### AMERICAN-GROWN

Minimum order 1000 Bulbs, 250 per Variety and Size

#### BLUE

Wedgewood  
Imperator  
Van Vliet  
Blue Ribbon

#### WHITE

Joan of Arc  
Snowdrift  
White Perfection  
White Superior

#### YELLOW

Golden Harvest  
Pacific Gold  
Moonlight  
Yellow Queen

#### ORCHID

The Orchid  
Available in sizes 8½-9, 9-10, 10-11, and 11-up, f.o.b. principal cities.

#### PRECOOLED IRIS

Wedgewood Blue Ribbon

Sizes 9-10, 10-11 and 11-up. Minimum order 1000 bulbs, 250 per variety and size. Late October delivery, f.o.b. principal cities.

White Perfection	Snowdrift	White Superior
Golden Harvest	Moonlight	Pacific Gold

The above 6 varieties available in size 8-9 only, precooled. Minimum order 100, 250 per variety and size. Mid-November delivery, f.o.b. principal cities.

#### NOTES:

(1) Regular (not precooled) prices are quoted f.o.b. principal cities.  
(2) Precooled bulb prices are quoted f.o.b. principal cities.  
Delivery on regular Iris bulbs from eastern warehouses, mid- to late September

on; precooled Iris from eastern warehouses, mid- to late October on.  
Wedgewood bulbs are precooled at 48° for 6 weeks; all other varieties 48° for 8 weeks.

## Daffodils

### AMERICAN-GROWN

**Actaea.** Snow-white with dark eye. Late forcing and outdoors.

**Beersheba.** Large white trumpet. Excellent for midseason forcing. Good outdoors.

**Carlton.** Clear yellow; early forcer.

**Cheerfulness.** Double creamy white. Late. Good outside.

**Flower Carpet.** Same as King Alfred except lighter yellow.

**Fortune.** Creamy yellow with orange crown. Mid-January forcing. Good outdoors.

**Golden Harvest.** Large yellow trumpet. Earliest forcer. Good for pre-cooling.

**Governor.** Large yellow trumpet. 7 days later than Unsurpassable. Largest of trumpets—excellent keeper.

**King Alfred.** Large yellow trumpet. No. 1 forcer. Fine for outdoor planting and precooling.

**Mrs. R. O. Backhouse.** Petals white, trumpet dark pink. Excellent for outdoor planting.

**Mount Hood.** Pure white; good for late forcing.

**President LeBrun.** White petals, yellow trumpet. Improved Spring Glory. Late January forcer. Good outdoors.

**Rembrandt.** Large yellow, early forcer. Good for precooling.

**Spring Glory.** White petals, yellow trumpet. Excellent for outdoor planting.

**Texas.** Double, large yellow and orange. Mid-January forcing. Good for outside.

**Unsurpassable.** Large yellow trumpet. Good forcer; 7 days later than Golden Harvest.

King Alfred available in Jumbo, DN No. 1 and DN No. 2. Balance available in DN No. 1 and DN No. 2. Precooled or Regular.

Precooled bulbs shipped f.o.b. principal cities from September on. Minimum order 250 bulbs.

## Hyacinths

### HOLLAND-GROWN

Hyacinth bulbs are packed as follows:

19 up and 18-19, 50 bulbs per bag.	15-16, 175 bulbs per bag.
17-18 and 16-17, 100 bulbs per bag.	14-15, 200 bulbs per bag.

Bulbs available September F.O.B. West Chicago.

\*Available prepared for earliest forcing.

#### WHITE

**Carnegie.** Pure white, late.

\***L'Innocence.** Pure white, very early.

#### PINK

\***Anne Marie.** Clear pink, very early.

\***Delight.** Light pink, early.

**Gertrude.** Rosy pink, medium.

**Marconi.** Bright pink, late.

\***Pink Pearl.** Rosy pink, very early.

**Queen of the Pinks.** Bright pink, late.

#### RED

**Jan Bos.** Scarlet, very early.

**La Victoire.** Bright carmine-red, early.

#### YELLOW

**City of Haarlem.** Golden yellow, medium forcer.

#### LIGHT AND DARK PINK

\***Bismarck.** Light porcelain-blue, very early forcer.

\***Delft Blue.** Porcelain-blue, medium.

**King of the Blues.** Dark blue, late.

\***Ostara.** Violet-blue, medium.





# Tuberous Rooted Begonias

Prepaid Anywhere in the United States Except Hawaii and Alaska

## COLLECTION No. 42

**800 Assorted Tuberous Rooted Begonia Bulbs**  
Size 1½-2 in. Belgian-grown, **Double Camellia-Flowered**. An assortment of 40% red and 20% each yellow, rose, and salmon.

**200 Market-Paks No. 42** (5½x7½x2¾ in. deep).  
Suggest using 4 bulbs per Pak.

**\$89.50, prepaid** (in U. S. except Alaska and Hawaii).

## COLLECTION No. 60

**750 Assorted Tuberous Rooted Begonia Bulbs**  
Size 1½-2 in. Belgian-grown, **Double Camellia-Flowered**. An assortment of 40% red and 20% each yellow, rose, and salmon.

**125 Market-Paks No. 60** (6x10x2½ in. deep).  
Suggest using 6 bulbs per Pak.

**\$87.50, prepaid** (in U. S. except Alaska and Hawaii).

ORDER BY COLLECTION NUMBER



Growers report to us that Market-Paks are an ideal growing-selling container for Tuberous Begonias. People seem to like to buy them this way.

## BALL TUBEROUS-ROOTED BEGONIA COLLECTIONS

Belgian-grown, **Double Camellia-Flowered**. Available January, February, and March. Prepaid anywhere in U. S. except Alaska and Hawaii. Collection contains:

25 each: White, Salmon, Orange, Copper, Crimson, and Rose.

50 each: Scarlet and Yellow.

Each collection contains an 8x20 inch window streamer with cultural information, a set of 5½x8½ inch pictures of all eight varieties in full color, and three newspaper mats for advertising in your local paper.

**250 2-Inch Bulbs** (Collection), **\$45.50.**

**250 1½- 2-Inch Bulbs** (Collection), **\$35.50.**

**Above 4 Collections Prepaid Anywhere in the United States except Hawaii and Alaska.**



### JIFFY-POT BEGONIA COLLECTION

500 bulbs, 500 pots, shipped together at the proper time for starting, will give you the makings of a profitable Tuberous Begonia offer next spring.

**500 Assorted Tuberous-Rooted Begonia** bulbs, 1½-2 in., Belgian-grown, **Double Camellia-Flowered**. 40% red, 20% each yellow, rose and salmon.

**500 Jiffy-Pots, 3½-in. Shorties.**

**\$69.50, prepaid** (in U. S. except Alaska and Hawaii).

MARK ORDER "JIFFY-POT COLLECTION"

# Belgian Grown T. R. Begonias and Gloxinia Bulbs

## TUBEROUS-ROOTED BEGONIAS

Shipped f.o.b. West Chicago December through March. F.O.B. New York in case lots; if order is received by us before October 1.

### DOUBLE CAMELLIA-FLOWERED

Scarlet	White	Copper
Salmon	Yellow	Orange
Crimson	Rose	Mixed

Prices on above varieties and mixture. Minimum order 100 bulbs, 25 of a variety.

Size of bulb	Per 100	Per 1000
1½ to 2 in. ....	\$15.00	\$ 95.00
2 in. up .....	20.00	150.00

250 at 1000 rate.

## GLOXINIAS

Shipped f.o.b. West Chicago December through February.

Emperor Frederic	Blanche de Meru
Emperor William	Prince Albert
Etoile de Feu	Princess Elizabeth
King of the Reds	Tigrinia Mixed
Meteor	Violacea
Mont Blanc	Queen Wilhelmina
	Mixture

Prices on above varieties and mixture. Minimum order 100 bulbs:

Size of bulb	Per 100	Per 1000
1½ to 2 in. ....	\$19.50	\$160.00
2 in up .....	24.50	190.00

250 at 1000 rate.

Prices are subject to change for 1960 delivery.



Gloxinia



# Ball Gala Gladioli

Ball Gala Glads are American-grown by expert Glad people. Each bulb is carefully graded and rigidly inspected by state inspectors as well as the grower, thus assuring Ball customers of the best quality available. F.O.B. West Chicago. Available December through May.

RED	No. 1—1½ in. up		No. 2—1¼-1½ in.	
	Per 100	Per 1000	Per 100	Per 1000
<b>Happy End.</b> Early, tall scarlet with yellow blotched throat .....	\$3.15	\$28.50	\$2.15	\$19.50
<b>Jo Wagenaar.</b> Excellent dark red ....	3.05	27.50	2.15	19.50
<b>Sans Souci.</b> Huge, rich glowing scarlet	3.15	28.50	2.15	19.50
<b>Valeria.</b> Popular early light scarlet ..	3.25	29.50	2.15	19.50

ORANGE and YELLOW				
<b>Gene.</b> Frilled light yellow .....	3.05	27.50	2.15	19.50
<b>Gold.</b> Outstanding golden yellow ....	3.85	35.00	3.10	28.00
<b>Orange Gold.</b> Finest tall orange .....	3.05	27.50	2.15	19.50
<b>Yellow Herald.</b> Rich, early ruffled yellow	3.05	27.50	2.15	19.50

LAVENDER, PURPLE and BLUE				
<b>Aljechin.</b> Deep purple .....	3.25	29.50	2.40	21.50
<b>Benjamin Britten.</b> Popular lavender-mauve .....	3.15	28.50	2.15	19.50
<b>Elizabeth the Queen.</b> Large ruffled lavender .....	3.15	28.50	2.15	19.50
<b>King David.</b> Deep royal purple, silver edge .....	3.45	31.00	2.60	23.00
<b>Lavender Beauty.</b> Tall, light lavender	3.15	28.50	2.15	19.50
<b>Salman's Sensation.</b> Fine tall medium blue .....	3.85	35.00	3.10	28.00

WHITE and CREAM				
<b>Florence Nightingale.</b> Fine tall white	3.15	28.50	2.15	19.50
<b>Margaret Beaton.</b> White; cherry-red throat .....	3.05	27.50	2.15	19.50
<b>Pacifica.</b> Ruffled white .....	3.05	27.50	2.15	19.50
<b>Snow Princess.</b> Early creamy white ..	3.05	27.50	2.15	19.50
<b>White Gold.</b> Satiny cream shading to gold .....	3.05	27.50	2.15	19.50



PINK, ROSE and SALMON	No. 1—1½ in. up		No. 2—1¼-1½ in.	
	Per 100	Per 1000	Per 100	Per 1000
<b>Early Rose.</b> Early deep rose ..	\$3.15	\$28.50	\$2.15	\$19.50
<b>Elmer's Rose.</b> Ruffled deep rose	3.25	29.50	2.40	21.00
<b>Ethel Cave Cole.</b> Fine light pink	3.05	27.50	2.15	19.50
<b>Friendship.</b> Earliest shell-pink ..	3.05	27.50	2.15	19.50
<b>Margaret Fulton.</b> Deep rose-pink	3.05	27.50	2.15	19.50
<b>Spic &amp; Span.</b> Finest ruffled salmon-pink .....	3.05	27.50	2.15	19.50
<b>Sweet Sixteen.</b> Pale pink .....	3.25	29.50	2.15	19.50

Minimum order 1000 bulbs, 100 of a variety. Write for quantity prices.

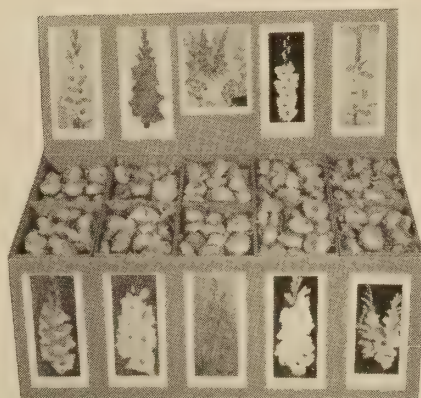
## Profitable Glads for Counter Sales

Available December till Sold Out

### BALL GALA GLADS Display-Pak Collection 500 JUMBO Bulbs

- 50 **Sans Souci.** Tall red.
- 50 **Margaret Beaton.** White with red throat.
- 50 **Jo Wagenaar.** Dark red.
- 50 **Gene.** Early ruffled yellow.
- 50 **Ethel Cave Cole.** Light pink.
- 50 **Spic & Span.** Outstanding pink.
- 50 **Snow Princess.** White.
- 50 **Elizabeth the Queen.** Lavender.
- 50 **Orange Gold.** Tall orange.
- 50 **Yellow Herald.** Ruffled yellow.

500 Jumbo Bulbs (Collection) \$16.95, F.O.B. West Chicago.



These collections are shipped in this sales-worthy container—just open the Pak and your display is ready to go to work.

Prices subject to change for 1960 delivery.

### BALL GALA GLAD COLL. No. 1

- 250 **Ethel Cave Cole.** Fine pink.
- 250 **Spic & Span.** Deep ruffled pink.
- 250 **Jo Wagenaar.** Dark red.
- 250 **Elizabeth the Queen.** Ruffled lavender.
- 250 **Snow Princess.** Tall white.
- 250 **Gene.** Early ruffled yellow.

1500 No. 1 Bulbs (Collection) \$39.50, F.O.B. West Chicago.

### BALL GALA GLAD COLL. No. 2

- 500 **Jo Wagenaar.** Dark red.
- 500 **Ethel Cave Cole.** Fine pink.
- 500 **Spic & Span.** Deep ruffled pink.
- 500 **Elizabeth the Queen.** Ruffled lavender.
- 500 **Snow Princess.** Tall white.
- 500 **Gene.** Early ruffled yellow.

3000 No. 2 Bulbs (Collection) \$49.50, F.O.B. West Chicago.



# Caladiums

## CALADIUMS FOR SPRING BEDDING PLANTS

### Complete Growing-Selling Kit

#### CALADIUM KIT "A" CONTAINS:

- 1 60 ft. Heating Cable and Thermostat (optional).
- 250 Bulbs, No. 2 (70 red, 35 each of 2 varieties; 70 pink, 35 each of 2 varieties; and 110 Candidum).
- 250 3-inch Jiffy-Pots.
- 3 Full-color Swiss-printed posters for display.
- 5 Wooden Pot Labels.
- 1 9x12 Plastic Cover to use on your starting bench to conserve heat and moisture.
- 1 Complete set of instructions.
- 1 Ad Mat to help you sell the started plants.
- 50 Copies of our specially prepared pamphlet of instructions to home gardeners describing the culture and uses of Caladiums. These are to be given by you to your Caladium customers.

"A" Kit, Complete with Heating Cable	\$49.50
Without Heating Cable	35.50
"B" Kit, Same as "A" Kit except for larger sized bulbs (No. 1, 1½-2 in.) for more breaks and larger leaves.	
With Heating Cable	63.00
Without Heating Cable	49.00

Caladium Kits Prepaid. Quantity discount for four or more kits, 10%.



Here is a bedding plant which is really different and striking. Useful for porch boxes, urns, entrance plantings, and for general bedding, wherever some shade is provided.

### CALADIUM GENERAL VARIETY LIST

#### Fancy Leaf VARIETIES

Ball Caladium bulbs are top-quality, Florida-grown. In the event of shortages of sizes you order (some varieties do not make Mammoth or Jumbo bulbs) we will ship the largest available size rather than a different variety. **Minimum order, 100 bulbs.** Bulbs shipped f.o.b. Florida. Available from December on.

- Aaron.** Creamy white center; narrow green border.
- Ace of Hearts.** Dwarf. Rose center, green border, scarlet ribs.
- Candidum.** White with green veins. Tops for pots and bedding.
- Carolyn Whorton.** Rose, darker veins and green hue. Fine for pots.
- Crimson Wave.** Crimson with dark green border.
- Dr. Groover.** Blotched pink. A good pot variety.
- Dr. T. L. Meade.** Bronze-red leaves; bright red midribs, veins.
- Edna.** Large, glossy leaves. Brilliant red. Excellent pot plant.
- Fannie Munson.** Acclaimed best solid pink, excellent for pots.
- FESTIVIA (NEW).** Coppery red, green veined. Superb pot plant.
- Freckles.** Pink blotches on green, red veined. Bedding and pots.
- Fred Bause.** Red, low growing; excellent for bedding and pots.
- Freida Hemple.** Dwarf. Best all-purpose red.
- Itacapus.** Dark red with small, brighter red spots. Good bedder.
- John Peed.** Popular red for bedding and pots. Good leaf.
- June Bride.** The whitest of whites. A "must" for pots.
- Kathleen.** A distinctive pink; strong, low-growing leaves.
- LADY CHRIS (NEW).** Transparent red and rose shading to white. Green veins and narrow green edge. Excellent pot plant.
- Lord Derby.** Rose-pink, dark ribs, narrow green border.
- Lord Rosenbury (Rosebud).** Red-rose center, light green border.
- Marie Moir.** White flecked with red and pink. Good bedder.
- Mrs. Arno Nehrling.** Bronze turning white with pink hue, red midribs.
- Mrs. F. M. Joyner.** White in inside culture; copper-red outside.
- Pink Lady.** Pink leaf with red midribs, narrow green border.
- Poecile Anglais.** Deep crimson leaf bordered metallic green.
- Ruby Smith.** Dominantly pink. A "must" for bedding and pots.
- Sea Gull.** White lacy network on green background. Bushy.
- Sunburst.** Bright red center with red spots surrounded by gold hue on green background. Medium size, very bushy.
- SUSAN (NEW).** Dominantly pink; red ribs, green hue. A "must" for pots and bedding.
- Texas Beauty.** Dwarf. Bronze-green leaf heavily blotched with pink; bright red midribs. Excellent bedder and pot.
- THE THING (NEW).** Dashes of red on chartreuse. Green hue. Excellent for bedding.
- Thos. Tomlinson.** Red with narrow green margins. Pots and bedding.
- WHITE CHRISTMAS (NEW).** White; green midribs. For bedding and pots.

	No. 2	No. 1	Jumbo	Mammoth
	1-1½ in.	1½-2½ in.	2½-3½ in.	3½ in. up
Per 100		\$17.50	\$25.00	\$32.50
Per 1000	90.00	150.00	230.00	290.00

500 bulbs at 1000 rate.

#### Strap Leaf (Lance) VARIETIES

##### Heaviest Leaf Texture of all Caladiums

Normally the largest obtainable in the following varieties are No. 1's. Many varieties do not even make No. 1's. If you are interested in the largest bulbs please submit your order to read "the largest size available."

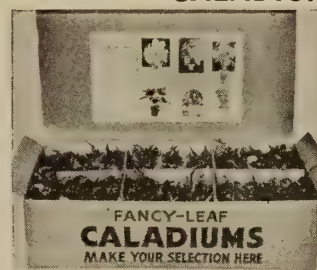
**ACE OF SPADES (NEW).** Red, blotched throughout with pink and green.

- Heavy leaf, tall growing—a "must" for pots.
- Dutch Frill.** Dark maroon leaves with green border. Many leaves.
- E. O. Orpet.** Crimson-red center with scarlet midrib. A solid green works its way into the crimson center.
- Elizabeth Lou.** Deep green ribs on magenta background.
- Horatio Sid.** Light green with dark green overcast; scarlet edge.
- Juno.** A nice combination of red, pink, white, and green.
- Mumbo.** Rose-pink with scarlet midriff, ribs, and veins; green edge.
- Okeechobee.** Mottled green and red. Good leaf substance.
- Pink Charmer.** Top pink strap.
- Pothos.** Green and white variegated. Hardy.
- Red Frill.** Very bright red leaves with frilled edges. Many leaves.
- Ripple.** Medium green, blotched with magenta.
- Rosalee.** Shiny red leaves with green border.
- Rose Frill.** Very bright rose leaf with frilled edges.
- Twenty Grand.** Light green spotted pink and red; deep green edge.
- White Glory.** A white-faced leaf surrounded with a crimson line running into delicate veins around the edge. Green ribs and veinings.
- White Wings.** White-green background outlined and spotted with bright red; emerald-green veining. Best white strap.

	No. 2	No. 1	Jumbo
	¾-1 in.	1-1½ in.	1½-2½ in.
Per. 100		\$17.50	\$25.00
Per 1000	\$90.00	150.00	230.00

F.O.B. Florida. Delivery December 15 on.

### CALADIUM COLLECTIONS



Ball Caladium Collections have been sales tested and consist of those varieties in popular demand. Each collection is packed in a display carton complete with color pictures. A display of Caladium plants placed near this collection will give your customers the idea. Collection consists of Fancy Leaved varieties, F O B. Florida. Be sure to state which size bulbs you want.

VARIETIES:	Candidum
Fannie Munson	Dr. Groover
Red Polka	Itacapus
Poecile Anglais	
No. 1 Sized Bulbs, 20 each of above 6 varieties (120 bulbs)	\$19.50
No. 2 Sized Bulbs, 40 each of above 6 varieties (240 bulbs)	19.50
Jumbo Bulbs, 15 each of above 6 varieties (90 bulbs)	22.50





## DARWIN

**All Bright.** 24 in. Bright red.  
**Aristocrat.** 28 in. Violet-rose.  
**Bartigon.** 24 in. Cochineal-red.  
**Bartigon Max.** Larger form of Bartigon.  
**Campfire.** 24 in. Blood-red.  
**City of Haarlem.** 28 in. Scarlet.  
**Clara Butt.** 24 in. Salmon, rosy pink.  
**Cordell Hull.** 24 in. Red on white.  
**Demeter.** 28 in. Reddish purple.  
**Desiree.** 24 in. Orange-scarlet.  
**Farncombe Sanders.** 28 in. Scarlet.  
**Golden Age.** 24 in. Yellow flushed salmon-orange.  
**Insurpassable.** 26 in. Lilac.  
**La Tulipe Noire.** 26 in. Deep velvety maroon-black.  
**Mamasa.** 26 in. Bright yellow.  
**Montgomery.** White edged carmine-red.  
**Niphetos.** 26 in. Sulphur-yellow.  
**Paul Richter.** 22 in. Geranium-red; early.  
**Philip Snowden.** 24 in. Light carmine-rose.  
**Pride of Haarlem.** Large cerise.  
**Pride of Zwanenburg.** Salmon-pink.  
**Princess Elizabeth.** 26 in. Rose.  
**Prunus.** 24 in. Salmon-pink.  
**Red Pitt.** 24 in. Bright red.  
**Rose Copeland.** 24 in. Lilac-rose.  
**The Bishop.** 28 in. Violet-purple.  
**Utopia.** Cardinal-red.  
**Wm. Copeland.** 24 in. Lavender.  
**Wm. Pitt.** 24 in. Cochineal-red.  
**Zwanenburg.** 26 in. Ivory.  
**Choice Mixture** of Darwin Tulips.

# TULIPS

## HOLLAND-GROWN BULBS

### DARWIN HYBRIDS

**Apeldoorn.** Orange-scarlet base, black edged yellow.  
**Gudoshnik.** Yellow spotted red.  
**Holland's Glory.** Orange-scarlet, black base.  
**Lefebber's Favorite.** Glowing scarlet, yellow base.  
**Oxford.** Red flushed purple, red and yellow base.  
**Roosevelt.** Clear orange-red.

### EARLY SINGLE

**Brilliant Star.** Brilliant scarlet.  
**Couleur De Cardinal.** Deep scarlet.  
**General De Wet.** Yellow flushed orange.  
**Keizerskroon.** 14 in. Red and yellow.  
**Pink Beauty.** 12 in. Rose and white.  
**Ursa Minor.** 13 in. Golden yellow.  
**Van Der Neer.** Violet.  
**Choice Mixture** of early singles.

### EARLY DOUBLE

**Electra.** 10 in. Deep cherry-red.  
**Marechal Niel.** 10 in. Yellow flushed orange.  
**Mr. Van Der Hoef.** 10 in. Yellow.  
**Murillo.** White flushed pink.  
**Orange Nassau.** 10 in. Orange-red.  
**Peach Blossom.** 10 in. Deep pink.  
**Schoonoord.** Pure white.  
**Triumphator.** Deep pink.  
**Choice Mixture** of early doubles.

### COTTAGE

**Albino.** 20 in. Pure white.  
**Carrara.** 20 in. White.  
**Golden Harvest.** 26 in. Lemon-yellow.  
**Golden Measure.** 26 in. Deep canary-yellow.  
**Mother's Day.** Lemon-yellow.  
**Princess Margaret Rose.** Yellow-orange and red.  
**Smiling Queen.** Dark pink edged silver.

### TRIUMPH

**Alberio.** Cherry-red, edged yellow.  
**Algiba.** Purple-mauve, edged lilac.  
**Aviateur.** Carmine-red, edged white.  
**Bandoeng.** Mahogany-red, edged yellow.  
**Blizzard.** Creamy white.  
**Crater.** 16 in. Carmine-red.  
**Denbola.** 16 in. Cerise-red with cream.  
**Edith Eddy.** 18 in. Carmine-red, edged white.  
**Elizabeth Evers.** 15 in. Pink.  
**Elmus.** 18 in. Cherry-red, white border.  
**Kansas.** 16 in. Snow-white.  
**Makassar.** Canary-yellow.  
**Nivea.** Pure white.  
**Paris.** Orange-red, edged yellow.  
**Red Giant.** 16 in. Soft red.  
**Telescopium.** Violet-rose.

## MENDEL

**Athleet.** Pure white sport of Weber.  
**Fuga.** Blood-red.  
**Her Grace.** 18 in. Pink and white.  
**Krelage's Triumph.** 14 in. Deep red for early forcing.  
**Olaf.** 14 in. Scarlet, early forcing.  
**Piquante.** Carmine, edged white.  
**Topscore.** 14 in. Geranium-red, yellow base.  
**Vander Eerden.** Glowing red.

## PARROT

**Blue Parrot.** 24 in. Lavender.  
**Fantasy.** 22 in. Deep salmon, blotched green.  
**Firebird.** Vermilion-scarlet sport of Fantasy.  
**Orange Favorite.** Orange-green.  
**Red Champion.** Bright crimson-red.  
**Sunshine.** Golden yellow.

## BOTANICAL

**Red Emperor.** Fiery scarlet.

## LATE DOUBLE

**Coxa.** Carmine-red, light edge.  
**Uncle Tom.** Dark glossy red.

Available in sizes 12 up and 11-12. Minimum order 1000 bulbs, 100 per variety and size. Write for prices.

## AMERICAN-GROWN TULIPS

We offer American-grown bulbs of the following varieties. Available in September. F.O.B. the following shipping points for orders of 1000 bulbs or more: Denver; Kansas City; Dallas; Minneapolis; West Chicago; St. Louis; Atlanta; Jersey City; Indianapolis; and Pittsburgh. Available in sizes 12 up and 11-12. Minimum order 1000 bulbs. Write for prices.

\***Albino.** (Cottage). Pure white.  
**All Bright.** (Darwin). Bright red.  
\***Bartigon.** (Darwin). Crimson-red.  
**Blue Parrot.** (Parrot). Dark lavender.  
**Campfire.** (Darwin). Blood-red.  
**Carrara.** (Cottage). White.  
**City of Haarlem.** (Darwin). Deep red.  
**Clara Butt.** (Darwin). Salmon, rose-pink.  
**Cordell Hull.** (Rembrandt). Red on white.  
\***Demeter.** (Darwin). Reddish purple; early.  
\***Elmus.** (Triumph). Cherry-red, white border.  
**Fantasy.** (Parrot). Salmon-pink.  
**Farncombe Sanders.** (Darwin). Cochineal-red.

\***Golden Harvest.** (Cottage). Lemon-yellow.  
**Golden Measure.** (Cottage). Deep canary-yellow.  
**Insurpassable.** (Darwin). Lilac.  
**Korneforus.** (Triumph). Light red.  
**Krelage's Triumph.** (Mendel). Crimson-red.  
**La Tulipe Noire.** (Darwin). Purple-black.  
**Niphetos.** (Darwin). Soft sulphur-yellow.  
**Nivea.** (Triumph). Creamy white.  
\***Olaf.** (Mendel). Scarlet; early.  
\***Paul Richter.** (Darwin). Geranium-red.  
**Princess Elizabeth.** (Darwin). Rose.

**Philip Snowden.** (Darwin). Carmine-rose.  
**Prunus.** (Darwin). Salmon-pink.  
\***Red Pitt.** (Darwin). Cochineal-red.  
**Rose Copeland.** (Darwin). Lilac-rose.  
\***Smiling Queen.** (Cottage). Dark pink, edged silver.  
\***Topscore.** (Mendel). Geranium-red, yellow base.  
\***Utopia.** (Darwin). Cardinal-red.  
\***Wm. Copeland.** (Darwin). Lavender.  
\***Wm. Pitt.** (Darwin). Cochineal-red.  
**Zwanenburg.** (Darwin). White-ivory.

Case lots (1000) minimum order.

\*We offer precooled bulbs (stored for 6 weeks at 40° and 75% to 85% relative humidity) of the varieties starred, size 12 up only, f.o.b. the following cold storage shipping points: Denver; Dallas; Minneapolis; Kansas City; Indianapolis; Atlanta; St. Louis, Mo.; Jersey City; and West Chicago. Available in late October. Minimum order for precooled bulbs, 1000; 250 of a variety. Allow \$2.00 additional per 1000 bulbs for pre-cooling.

WRITE FOR TULIP PRICES



# Cannas

## STANDARD VARIETIES

Our Cannas are high quality 2- to 5-eye divisions. Delivery from January through spring months. F.O.B. West Chicago.

### PINK—GREEN FOLIAGE

**Copper Giant.** Large salmon-pink. Tall.  
**City of Portland.** Large pink. Medium.  
**Hungaria.** Large dark pink flower. Dwarf.  
**Rosamond Cole.** Extra large red flower, gold edge. Dwarf.

### RED—GREEN FOLIAGE

**President.** Extraordinarily large, bright red. Dwarf.

### RED—BRONZE FOLIAGE

**Ambassador.** Cherry-red. Dwarf.  
**Red King Humbert.** Large, light red flower. Tall.

### YELLOW—GREEN FOLIAGE

**Richard Wallace.** Large yellow.  
**Yellow King Humbert.** Large, yellow variegated.

### ORANGE—BRONZE FOLIAGE

**Wyoming.** Large dark orange.

Prices above Cannas, each: **\$9.50** per 100; 250 for **\$20.00**; 500 for **\$35.00**; 1000 for **\$55.00**.

Minimum order 100, 50 of a variety.

## NEW DWARF CANNAS

Available the year around f.o.b. California.

These new varieties have large, showy flower heads; fine, clear color tones; bushy, strong plants; grow normally about 30 inches tall. Ideal for the low, modern ranch-type house. Disease-free.

**Pfitzer's Cherry-Red.** A new shade in Cannas. Light, bright green foliage.

**Pfitzer's Chinese Coral.** Exciting tones of pink.

**Pfitzer's Primrose-Yellow.** Clear, fine yellow; deep green foliage.

**Pfitzer's Salmon-Pink.** Luminous buff to salmon. Bluish green, ornamental foliage.

25 to 49, **70c** each; 50 to 99, **\$30.00** per 50; 100 to 249, **\$55.00** per 100; 250 or more, **\$500.00** per 1000.

## GRAND OPERA SERIES

Large, showy flower heads; bushier growing habit. Delightful pastel colors.

**Aida.** Large, showy trusses of orange-salmon to old rose.

**La Boheme.** Lovely tones of soft peach-pink and coral.

**La Traviata.** Lively shade of old rose. Most vigorous and most dwarf growing.

**Mignon.** Giant heads of peach to rose.

**Mme. Butterfly.** Delicate pastel tints of pink with yellow.

**Rigoletto.** Clear canary-yellow.

25 to 49, **22c** each; 50 to 99, **\$9.25** per 50; 100 to 249, **\$15.50** per 100; 250 or more, **\$142.00** per 1000.

# Callas

An important cut flower and pot plant crop. For cutting, plant in benches in the fall in loose soil. Frequent watering and feeding and shade during the summer are important. Plant 2 ft. apart. *Aethiopica* forces best at 55° and *Elliottiana* and *Rehmanni Superba* at 60°. Use the yellow *Elliottiana* for Easter pot plants. Start bulbs in flats of peat moss at 60°. When root growth has started, pot in 5- or 6-inch pots. Force at 60° during growing period and 55° when flowering. F.O.B. California.

**Elliottiana.** The popular yellow Calla. November delivery. 250 at 1000 rate.

	Per 100	Per 1000
2 to 2½ in. ....	<b>\$17.50</b>	<b>\$137.50</b>
2½ to 3 in. ....	<b>33.50</b>	<b>297.00</b>
3 in. up ....	<b>49.50</b>	<b>435.00</b>

**Aethiopica.** The popular large, white Calla. Delivery in August. 250 at 1000 rate.

	Per 100	Per 1000
1¼ to 1½ in. ....	<b>\$12.50</b>	<b>\$ 79.00</b>
1½ to 1¾ in. ....	<b>19.50</b>	<b>145.00</b>
1¾ to 2 in. ....	<b>27.50</b>	<b>235.00</b>
2 to 2½ in. ....	<b>37.50</b>	<b>315.00</b>

**Rehmanni Superba.** The pink Calla. November delivery. 250 at 1000 rate.

	Per 100	Per 1000
1½ to 2 in. ....	<b>\$16.50</b>	<b>\$127.50</b>
2 to 2½ in. ....	<b>21.50</b>	<b>187.50</b>
2½ in. up ....	<b>32.50</b>	<b>265.00</b>

# Bulbs for Retail Sales

## TO INCREASE YOUR PROFITS

Millions of bulbs are sold to home gardeners every fall and spring. There's **profit and quick turnover** in counter bulbs for you. Our resale bulbs are designed (with promotion material included) for the impulse buyer. **Order several collections today.**

## HOLLAND BULB COLLECTION

This is a real bargain! 1175 bulbs packed in paper bags with a colored picture of each variety and a large banner poster for window display. All named varieties and first-quality bulbs.

Each Ball Holland Bulb Collection contains:

**HYACINTHS:** (Size 15-16). 25 each, **Blue, Pink and White.**

**DAFFODILS:** (Size DN No. 2). 100 **King Alfred.**

**TULIPS:** (11-12 size).

100 **Edith Eddy.** Carmine-red, edged white.  
100 **Bartigon.** Cochineal-red.  
100 **Philip Snowden.** Deep rose.  
100 **Wm. Copeland.** Lavender.

100 **Carrara.** Pure white.

100 **All Bright.** Bright red.

100 **Golden Harvest.** Lemon-yellow.

100 **Her Grace.** Rose, edged white.

50 **Blue Parrot.** Dark lavender.

50 **Fantasy.** Deep salmon blotched green.

100 **Red Emperor.** The famous early, large fiery scarlet.

**Ball Holland Bulb Collection** (1175 bulbs) for **\$51.00.**

Shipped f.o.b. West Chicago or East Coast ports if your order is received by July 15.

Should any varieties be sold out when your order is received, we will substitute with equally good or better named varieties.

Prices subject to change for 1960 delivery.



Posters and colored pictures of each variety help create sales.



## AMERICAN-GROWN IRIS COLLECTIONS

For our customers who need smaller amounts each of the best forcing varieties, we offer the following collections with the benefit of larger-quantity prices. These varieties are excellent for forcing from February on. See (1) below for f.o.b. points. Delivery from September on. If you wish these collections precooled, add \$2.00 per thousand bulbs; see (2) below for f.o.b. points. Precooled delivery from mid-November on.

### IRIS COLLECTION A

- 250 **Blue Ribbon.** 10-11.
- 250 **Snowdrift.** 8-9.
- 250 **Moonlight.** 8-9.
- 250 **Pacific Gold.** 8-9.

1000 bulbs for **\$46.00**

### IRIS COLLECTION B

- 500 **Blue Ribbon.** 10-11.
- 500 **Snowdrift.** 8-9.
- 500 **Moonlight.** 8-9.
- 500 **Pacific Gold.** 8-9.

2000 bulbs for **\$92.00**

## DISPLAY PACKED IRIS



Packed in display cases with colored banner in each pack. All 7-8 sized bulbs, 200 bulbs each of the following colors: Bicolor, Lilac, White, Dark Blue and Yellow. 1000 bulbs, f.o.b. principal cities, **\$30.00**. Available early September.

## DAFFODILS

### Display-Packed (American-Grown)

#### King Alfred

Golden yellow. Large colored banner included.

250 Bulbs DN No. 1 (95 lbs.) **\$22.00**.

#### Mixed Daffodils

All colors and types. Large color banner included. (Pictured).

300 Bulbs DN No. 2 (60 lbs.) **\$17.00**.

#### Mixed Varieties—50 bulbs each:

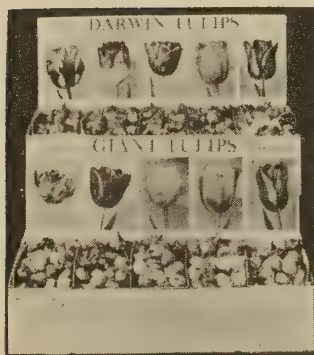
**Twink Fortune Bicolor Cheerfulness Diane Kaesner**

250 Bulbs DN No. 1 (90 lbs.) **\$26.00**.



## AMERICAN TULIPS

### Display Packed



50 each of the following varieties:

<b>Dillenburg</b>	<b>Golden Harvest</b>
<b>Pr. Marg. Rose</b>	<b>Red Pitt</b>
<b>Fantasy</b>	<b>Clara Butt</b>
<b>Aristocrat</b>	<b>Insurpassable</b>
<b>Albino</b>	<b>Lincolnshire</b>

1000 Bulbs, 12 up, **\$45.00**

Minimum order 1 case. Delivery early September, f.o.b. principal cities.



## TUBEROUS-ROOTED BEGONIAS

Here are three collections to increase your Begonia business—complete merchandising units for home garden sale of Begonias.

### MARKET-PAK, BEGONIA COLLECTIONS

#### Collection No. 42, \$89.50 Prepaid

200 No. 42 Market-Paks (5½x7½x2¾ in. deep).

800 Assorted Tuberous-Rooted Begonia Bulbs, 1½-2 in. Belgian-grown.

Double Camellia-Flowered, 40% red, 20% yellow, 20% rose, 20% salmon. Suggest using 4 bulbs per Pak.

#### Collection No. 60, \$87.50 Prepaid

125 No. 60 Market-Paks (6x10x2½ in. deep).

750 Assorted Tuberous-Rooted Begonia Bulbs, Belgian-grown. 1½-2 in.

Double Camellia-Flowered, 40% red, 20% yellow, 20% rose, 20% salmon. Suggest using 6 bulbs per Pak.

Please order by collection number. Prepaid anywhere in the U.S. except Hawaii and Alaska.

#### JIFFY-POT, BEGONIA COLLECTION, \$69.50 Prepaid

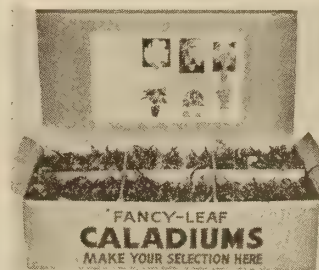
500 3½ inch Jiffy-Pot Shorties

500 Assorted Tuberous-Rooted Begonia Bulbs, Belgian-grown. 1½-2 in.

Double Camellia-Flowered, 40% red, 20% yellow, 20% rose, 20% salmon. Please mark order, "Jiffy-Pot Collection." Prepaid anywhere in the U.S. except Hawaii and Alaska.

## CALADIUM COLLECTIONS

Ball Caladium Collections have been sales tested and consist of those varieties in popular demand. Each collection is packed in a display carton complete with color pictures. A display of Caladium plants placed near this collection will give your customers the idea. Collection consists of Fancy-Leaved varieties. F.O.B. Florida. Be sure to state which size bulbs you want.



#### VARIETIES:

<b>Fannie Munson</b>	<b>Candidum</b>
<b>Red Polka</b>	<b>Dr. Groover</b>
<b>Poecile Anglais</b>	<b>Itacapus</b>

**Jumbo Bulbs**, 15 each of above 6 varieties (90 bulbs) . . . . . **\$22.50**

**No. 1 Sized Bulbs**, 20 each of above 6 varieties (120 bulbs) . . **19.50**

**No. 2 Sized Bulbs**, 40 each of above 6 varieties (240 bulbs) . . **19.50**

Prices subject to change for 1960 delivery.



## GARDEN LILIES

**BALL HARDY LILY COLLECTION.** Includes the "old stand-by" varieties. Color pictures of each variety in each case. Bulbs packed in peat moss. Contains 40 bulbs each of 7-8 Croft, the pure white trumpet Lily; 7-9 Rubrum, a reflex carmine-pink; 7-9 Auratum, the bowl-shaped flower, white spotted crimson with yellow stripes; and 6-8 Album, reflex white. Case of 160 bulbs, \$42.00. Shipped f.o.b. West Chicago, January to March.



Color Posters included with each collection

**HOLLAND LILY COLLECTION.** Also includes standard garden Lilies. Holland-grown, shipped f.o.b. New York and therefore of most interest to our eastern customers. Colored pictures of each variety in each case. Cases are designed as counter selling containers. Open case and use inside of cover for display of colored pictures. Wood partitions separate varieties. Contains 50 8-9 bulbs each of the following varieties:

**Improved Regale Tigrinum Splendens Spec. Rubrum Magnificum  
Henryi Regale Album**

Case of 250 8-9 bulbs, \$59.00. Shipped f.o.b. New York from November 1st on.

**AMERICAN LILIES IN DISPLAY CARTON.** Includes the newer American varieties that are finding wide acceptance among American gardeners. Bulbs are packed in peat moss and Polyethylene bags, each variety in a separate bag. Attractive colored banner showing individual pictures with cultural directions included. Open the box, display the banner and you're in business!

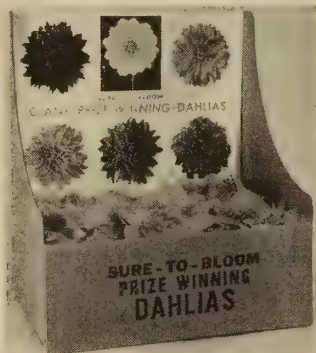
Contains 25 bulbs each of the following varieties (American-grown):

**Enchantment, 5-6  
Fiesta, 5-6  
Golden Chalice Hybrids, 5-6  
Mid-Century Hybrids, 5-6  
Olympic Hybrids, 6-7  
Valencia, 5-6**

Case of 150 bulbs f.o.b. Oregon, \$35.00. Available October on.



## Giant Dahlia Display Case



The **Ball Dahlia Collection** is designed for the gardener who wants some Dahlias in his planting. Tubers are packed individually in Polyethylene bags. Collection consists of 25 tubers each of the following colors in **large flowered varieties (each variety labeled)**.

**Red White Pink Yellow  
Lavender Autumn Shades**

Shipping carton opens up into a display case and includes colored poster.

**Ball Dahlia Collection** of 150 tubers for \$33.00. F.O.B. Michigan. Available November on.

## BALL GALA GLADIOLI

Ball Gala Glads are grown by experts. Each bulb is carefully graded and rigidly inspected by state inspectors as well as the grower, thus assuring Ball customers of the best quality available.

### BALL GALA GLAD COLLECTION No. 1

- 250 **Ethel Cave Cole.** Fine pink.
- 250 **Spic & Span.** Deep ruffled pink.
- 250 **Jo Wagenaar.** Dark red.
- 250 **Elizabeth the Queen.** Ruffled lavender.
- 250 **Snow Princess.** Tall white.
- 250 **Gene.** Early ruffled yellow.

1500 No. 1 Bulbs (Collection) \$39.50, f.o.b. West Chicago.

### BALL GALA GLAD COLLECTION No. 2

- 500 **Jo Wagenaar.** Dark red.
- 500 **Ethel Cave Cole.** Fine pink.
- 500 **Spic & Span.** Deep ruffled pink.
- 500 **Elizabeth the Queen.** Ruffled lavender.
- 500 **Snow Princess.** Tall white.
- 500 **Gene.** Early ruffled yellow.

3000 No. 2 Bulbs (Collection) \$49.50, f.o.b. West Chicago.

### BALL GALA GLAD Display-Pak Collection With Pictures

#### 500 JUMBO Bulbs.

- 50 **Sans Souci.** Tall red.
- 50 **Margaret Beaton.** White with red throat.
- 50 **Jo Wagenaar.** Dark red.
- 50 **Gene.** Early ruffled yellow.
- 50 **Ethel Cave Cole.** Light pink.
- 50 **Spic & Span.** Outstanding pink.
- 50 **Snow Princess.** White.
- 50 **Elizabeth the Queen.** Lavender.
- 50 **Orange Gold.** Tall orange.
- 50 **Yellow Herald.** Ruffled yellow.

500 Jumbo Bulbs (Collection) \$16.95, f.o.b. West Chicago.



## PEONIES

**BALL PEONY COLLECTION** of 150 divisions, \$80.00.

Available Sept-Oct. F.O.B. Illinois.

Our **Peony Collection** contains 25 good sized, 3- to 5-eye divisions each of the following varieties:

- Baroness Schroeder.** Late white.
- Felix Crousse.** Midseason red.
- La Lorraine.** Midseason creamy white.



Peony Poster

- Mons. Jules Elie.** Early deep pink.
- Richard Carvel.** Early brilliant red.
- Sarah Bernhardt.** Late pink.



# For Your Garden Center

*Gro. J. Ball*  
INC.

Don't Miss These Profitable Items for Garden Center Sales

## PLANTS

### REX BEGONIA

Five to seven varieties in each shipment.  
2 1/4-inch. Packed in cartons of 50 only.

Prices: \$35.00 per 100; \$300.00 per 1000.  
250 at 1000 rate.

Shipped via express F.O.B. Lockport, New York. 5% packing charge Nov. 1 to April 1 as insulated cartons are used. Growing suggestions sent on all orders.



REX BEGONIA

### BLEEDING HEART

(Dicentra Spectabilis)

Field-grown clumps F.O.B. Pennsylvania October 15 to April 1. Minimum order 25 clumps. 3-5 eyes, 40c each; 5-8 eyes, 55c each.

### BALL 2 1/4-INCH FOLIAGE COLLECTIONS

2 1/4-inch plants in plastic pots, each pot contains 3 or more cuttings.

PREPAID (packing included) east of the Rockies.

ASSORTED 2 1/4-INCH COLLECTION No. 7

- 20 Nephthytis, Green Gold
- 20 Philodendron Cordatum
- 20 Neanthe, Bella Palm

60 Plants, Collection No. 7, \$15.50

See pages 72-75 for other Foliage Plants.

### PANSY

All our Pansy plants are grown by specialists from originator's seed. Delivery late September through early November.

Steele's Jumbo Mixture. \$13.50 per 1000.

Steele's "400" Super Swiss Mixed. \$13.50 per 1000.

Swiss Roggli Giants. \$16.50 per 1000.

Minimum order, 1000 of a variety. Shipped F.O.B. Ohio.

### ROSES

Hybrid Teas, see pages 78-79.

## BULBS

### HOLLAND BULB COLLECTION

Ideal for Counter Sales and Easter Forcing

#### DAFFODILS

100 King Alfred. Double nosed yellow.  
low.

#### TULIPS

100 Edith Eddy. Carmine-red, edged white.  
100 Bartigon. Cochineal-red.  
100 Philip Snowden. Deep rose.  
100 Wm. Copeland. Lavender.  
100 Carrara. Pure white.  
100 Golden Harvest. Lemon-yellow.  
1 Collection .....

#### HYACINTHS

25 Blue  
25 Pink  
25 White

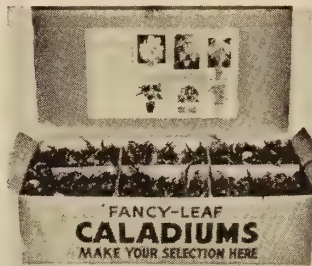
100 Her Grace. White edged rose.  
100 All Bright. Deep red.  
50 Blue Parrot. Dark lavender.  
50 Fantasy (Parrot). Deep salmon, blotched green.  
100 Red Emperor. Fiery scarlet, very large.  
.....\$51.00

Colored poster and picture of each variety are included to help you promote bulb sales.

Prices are F.O.B. West Chicago or East Coast if order is received by July 15. Early September delivery. Offered subject to crop and price change. Should any varieties be sold out when your order is received, we will substitute with equally good or better named varieties. C.O.D. orders must be accompanied by 50% cash in advance.

### CALADIUM COLLECTIONS

Ball Caladium Collections have been sales tested and consist of those varieties in popular demand. Each collection is packed in a display carton complete with color pictures. A display of Caladium plants placed near this collection will give your customers the idea. Collection consists of Fancy Leaved varieties. F.O.B. Florida. Be sure to state which size bulbs you want.



#### VARIETIES:

Fannie Munson Candidum  
Red Polka Dr. Groover  
Poecile Anglais Itacapus

No. 1 Sized Bulbs, 20 each of above 6 varieties (120 bulbs) .. \$19.50

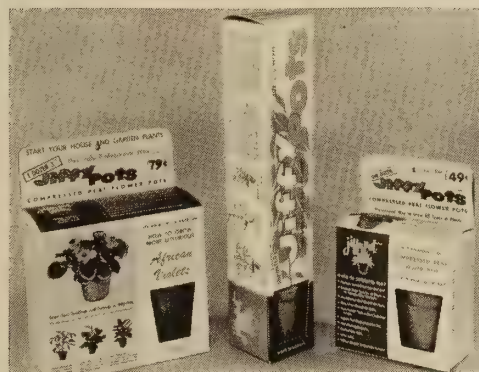
No. 2 Sized Bulbs, 40 each of above 6 varieties (240 bulbs) .. 19.50

Jumbo Bulbs, 15 each of above 6 varieties (90 bulbs) ..... 22.50

See page 91 for separate varieties.

### Retail Packages of "JIFFIES" are SELF-SELLERS

Boost Your Spring Retail Sales  
By Showing These Colorful Units



Your customers have read about Jiffy-Pots, they know what they are, and they ask for them by name. You can cash in on the thousands of lines of publicity written by garden editors, plus the continuous national advertising we give to Jiffy-Pots, if you mass-display these convenient, colorful retail packages. Your customers will want them for early starting of annuals and perennial flowers, for their Tomatoes, Cucumbers, Peppers, and other vegetables. Available in 2 1/4-inch and 3-inch sizes.

Cat. No.	Pot Size	Pots per pkg.	Retail price per pkg.	Pkgs. per case	Shipping weight	Price per case
R225JP12	2 1/4-in.	12	\$0.49	48	12 lbs.	\$14.12
R225JP24	2 1/4-in.	24	.89	24	10 lbs.	12.82
R300JP12	3 -in.	12	.79	24	16 lbs.	11.38
B225JP50	2 1/4-in.	50	1.39	60	45 lbs.	50.40
B225JP100	2 1/4-in.	100	2.19	30	45 lbs.	39.60
B300JP50	3 -in.	50	1.95	30	45 lbs.	35.10
B300JP100	3 -in.	100	3.39	15	45 lbs.	30.45

MINIMUM ORDER: One case for West Chicago. Freight prepaid on orders for 150 pounds or more.

### GLADIOLI

See pages 89 and 94.

### BALL TUBEROUS-ROOTED BEGONIA PREPAID COLLECTION

Belgian-grown, double Camellia-Flowered. Available January, February, and March. Pre-paid anywhere in U.S. except Alaska and Hawaii. Collection contains:

25 each: White, Salmon, Orange, Copper, Crimson and Rose.

50 each: Scarlet and Yellow.

Each collection contains an 8x20 inch window streamer with cultural information, and a set of 5 1/2 x 8 1/2 inch pictures of all eight varieties in full color, and three newspaper ad mats for advertising in your local paper.

250 2-Inch Bulbs (Collection) .... \$45.50

250 1 1/2-2 Inch Bulbs (Collection) 35.50

Try Caladiums for bedding plant sales this spring. See page 90.





*Now!*

## -Sweet Sixteen Garden Mums

These sixteen varieties have been carefully selected for you from among the hundreds of garden varieties available. Each one is tops in its class. The collection contains a well balanced assortment of all Chrysanthemum colors and forms.

### What Sweet Sixteen Garden Mums will do for you:

**1. Sweet Sixteen Garden Mums will extend your present line of bedding plants.** By offering your customers Sweet Sixteen Mums as a spring bedding plant item, they will have flowers in bloom long after other annual plants have finished flowering; it will add beauty to their gardens later into the fall.

**2. Sweet Sixteen Mums offer your customers a balanced assortment of colors and forms.** Artistic white and yellow spoon types (Jessamine Williams); garden types with lots of color (King's Ransom, Joybringer); compact, showy Cushion Mums (Lipstick, Mahogany Cushion); and short, compact Daisy Mums (Mischief).

**3. The Sweet Sixteen Mum Collection will eliminate guesswork for you as a bedding plant grower who may not be familiar with garden Mums.** Outstanding varieties can be offered to your spring bedding plant trade with the knowledge that you have provided your customers with the best. These varieties are suitable for flowering in May in pots.



**Collection Contains: 25 rooted cuttings each of the following 16 varieties. Total, 400 cuttings.**

#### GARDEN TYPES

Medium tall, bushy, lots of color.

**Ostosa.** Excellent white, very free flowering.

**Yel. Chris. Columbus.** Lemon-yellow, decorative.

**King's Ransom.** Golden yellow decorative. Large, showy blossoms.

**Joybringer.** Salmon-rose pompon.

**Spellbound.** Very pleasing lavender-pink, decorative pompon.

**Remembrance.** Carmine-red pompon.

#### CUSHION MUMS

Compact "mound" shaped plants.

**Powderpuff.** White.

**Ann Ladygo.** Pink anemone.

**Yellow Cushion.** Light yellow decorative.

**Major Cushion.** Small decorative lavender pompon.

**Mahogany Cushion.** Jasper-red.

**Lipstick.** Ruby-orange.

#### SPOON TYPES

Tubular petals opening at tips to form a spoon.

**Jessamine Williams.** Early, free flowering white.

**Dolli-Ette.** Showy golden bronze.

#### DAISY

Short, compact, Daisy-like flowers.

**Lyric.** Attractive white.

**Mischief.** Dark purple with contrasting yellow center.

### 400 Rooted Cuttings (Sweet Sixteen Collection only), \$35.00

Collections available February 15 to June 15. Be sure to state desired shipping date. In the event that any variety is sold out at shipping time, substitution will be made by our supplier with a variety of the same color and type.

### SEE OUR BALL MUM GUIDE FOR COMPLETE MUM LIST

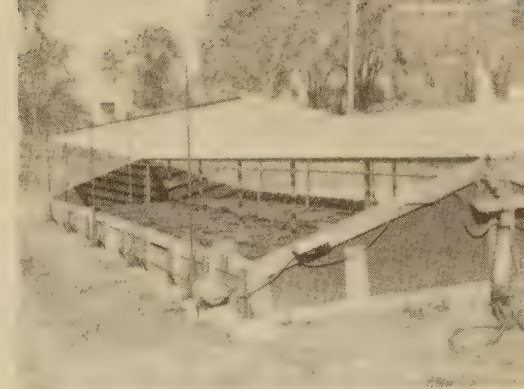
Three fine Garden Mums: Ostosa, large white incurved pompon; Lipstick, ruby-orange cushion type; and King's Ransom, golden yellow decorative, are included in our sweet Sixteen Collection offered above.







For highest quality bedding plants, such as Petunia and Tomato plants shown above, try Jiffy-Pots. Easy to grow, customer plants pot and all. See page 110.



Some frame installations have mechanized ventilation like this one at Richardson's in St. Elmo, Ill. A good many frames are now covered with plastic, not glass.

## Growing Better Bedding Plants

### GERMINATION

These are some **essentials**: (1) Constant uniform moisture; (2) correct temperature—65 to 70° minimum for most annuals; (3) sterile soil and containers (a combination of steam plus a Panogen drench is hard to beat); (4) loose, fine medium, not too rich; and (5) good seed.

### SEED TROUBLES?

Damp-off is much easier prevented than cured. First, we suggest following the **five germination essentials** listed above. Not that every grower must operate the same. Good growers have many germination systems, but they all carry out the same essentials.

After germination, damp-off can be restricted by: (1) **careful watering**—water thoroughly but not too frequently; (2) plenty of **light** and **air** as soon as the seed is up; (3) **temperature lowered** to growing range—50° for most annuals—by transplanting time.

### GENERAL CULTURE

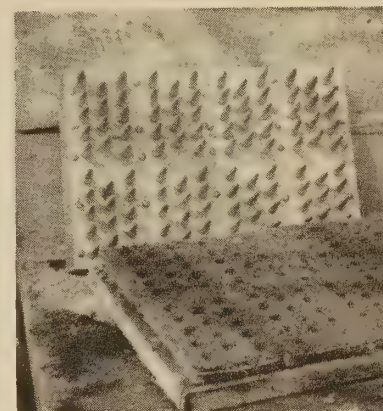
**Soil.** A good bedding plant soil is regular field soil with about **25 % organic matter** mixed in. Peat, manure, and leaf mold all work well—and so do Perlite (not organic but a good loosener), redwood shavings, peanut hulls and other additives. **Steam sterilizing** pays for itself just by killing weed seeds, but also controls many diseases.

**Transplanting.** “**Early and shallow**” is our rule of thumb. We feel that when the first true leaves show it's time to prick off—plants take off faster and damp-off danger is reduced. Shallow planting may look strange on lanky seedlings, but they soon right themselves and take off. Deep planting does seem to encourage stem rot.

**Water and fertilizer.** If flats, paks or pots are set level, **one thorough watering** (two for Jiffy-Pots) will hold them for several days. You may need to touch up high spots and edges, but we like to let the whole planting dry quite thoroughly before the next thorough watering.

**Feeding** usually isn't needed until late in the season, but in the rush of business it is often neglected. One or two applications of complete **liquid** fertilizer will keep the average bedding plant crop looking much better.

**Timing** varies with varieties. However, ten weeks from seed sowing to salable plants has been **roughly** average during our normal northern spring, germination at 70° and growth at 50°. Cold frames held below 50° can cause several additional weeks delay. Southern heat, or late sowings in the North, on the other hand, will bring plants on faster.



Here's a one-stroke dibbler that prepares an entire flat of Market-Paks for the seedlings.



Thin layer of coarse straw under the “paks” is one of the best ways to keep bottom clean and dry. Other good systems: plastic sheets, boards, gravel, bare bench.

Additions like this one are used by hundreds of growers to increase spring growing area. This one is covered with “Weatherable Mylar” (page 98) for year round use.



Intermittent mist. Here's a setup where with two time clocks and a solenoid valve we can keep germinating seed uniformly moist. Five seconds of mist every 10-30 minutes, depending on season and weather.





Du Pont's *Weatherable*

# MYLAR®

The Strongest, Longest Lasting  
Plastic for Greenhouse Use!

## ● STRONG

DuPont's Weatherable "Mylar" Polyester film W has a tensile strength of 20,000 P.S.I. "Mylar" is **nine times stronger than Polyethylene** and is one-third the strength of machine steel. Highly resistant to tearing. Try to tear one of our free samples!

## ● LONG-LASTING

Weatherable "Mylar" has been dramatically improved by DuPont to **last four to seven years**. Four-year life applies to roof surfaces and seven-year life applies to vertical surfaces, when properly applied. Withstands temperature extremes. "Mylar" keeps its high strength and good appearance from **60° below zero to 200° above zero**.

## ● CLEAR

Nationwide tests have shown that the light transmission of Weatherable "Mylar" is essentially the same as glass. **"Mylar" will not turn cloudy or discolor with age.** Plant growth under "Mylar" has been proven to equal or surpass plant growth under glass.



Dramatic test of strength shows a two-ton automobile being lifted in a thin sheet of "Mylar" . . . thinner than 5-mil type W.

## Three Practical Structures of Weatherable "MYLAR": NO. 48 HOUSE

No. 48 Plastic House is designed expressly to be covered with DuPont's Weatherable "Mylar". It is a simple wood frame structure 21 feet 6 inches wide with one center post, to be built from lumber available locally. **Cost of material (lumber, "Mylar" and fans) for a 4000 sq. ft. house is 48c per sq. ft. and for a 50,000 sq. ft. house, 39c per sq. ft.** This includes fans for ventilation but no heat or benches. Plans available on request.

"Mylar" covered range of Mr. Robert Bradford of Blue Springs Nursery, Huntsville, Alabama. The range was built from G. J. Ball, Inc. No. 48 Plastic House Plans. Although the houses have been up but a short time, Mr. Bradford indicates he is well pleased with "Mylar" and the ease with which the range was constructed following our plans.

\*Du Pont's registered trademark for its polyester film.

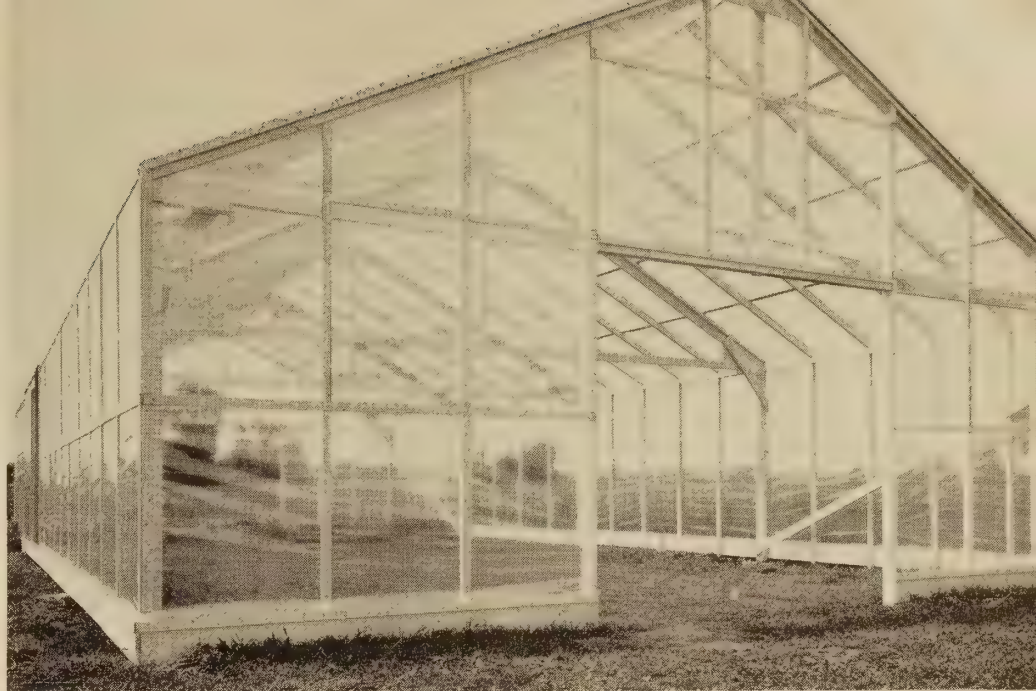




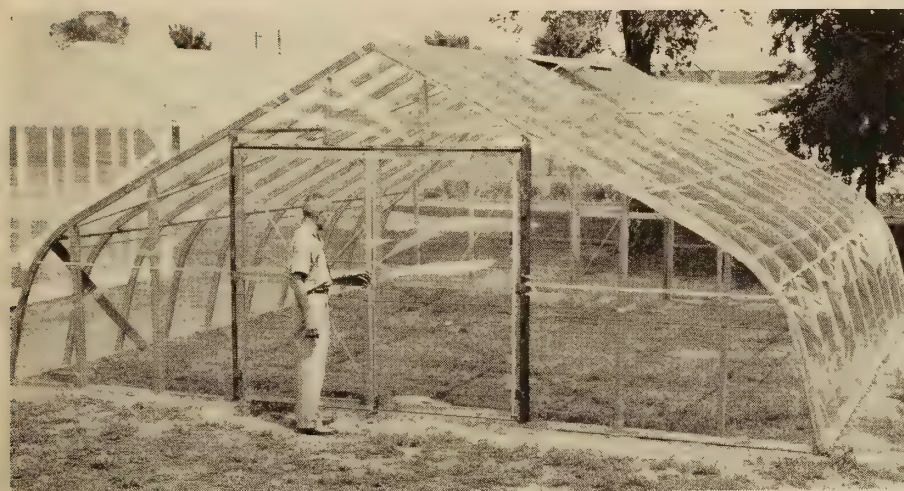
## No. 58 HOUSE

No. 58 Plastic House is designed expressly to be covered with Du Pont's Weatherable "Mylar." It is a **clear span structure 24 feet wide**, to be built from lumber available locally. Requires somewhat more care to build than the No. 48 House but gives a house free from posts.

**Cost for material (lumber, "Mylar" and fans) for No. 58 House is the same as for No. 48 House.** Plans are available on request.



"Mylar" covered house at G. J. Ball, Inc., West Chicago, Illinois. Built from our No. 58 Plastic House Plans.



## TROX HOUSE

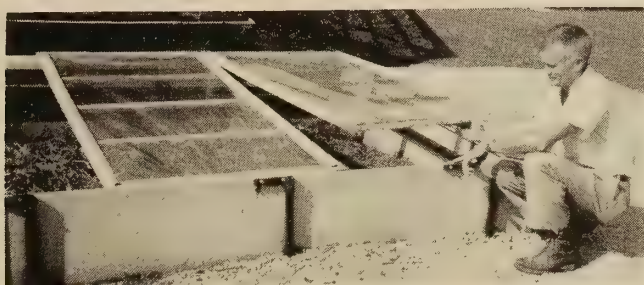
Trox House is a completely pre-fabricated wood frame structure covered with Du Pont's Weatherable "Mylar." The laminated fir arches are dipped in non-toxic wood preservative as are all the wood members. **A very simple house to erect**, yet it costs less per square foot covered with "Mylar" than many other pre-fabricated structures covered with Polyethylene. Makes an ideal house for Garden Center Sales or a single growing house. **Cost of Trox House wood frame and "Mylar" necessary to cover varies from 55c per sq. ft. to 74c per sq. ft.** depending on house size.

Size of House	TROX WOOD FRAME		"MYLAR"	
	Wt.	Price	48 in. Wt.	5 Mil W-1 Price
23 ft.x 24 ft.	435 lbs.	\$231.39	51 lbs.	\$180.00
23 ft.x 32 ft.	580 lbs.	273.93	68 lbs.	240.00
23 ft.x 40 ft.	725 lbs.	343.18	85 lbs.	300.00
23 ft.x 48 ft.	870 lbs.	397.00	102 lbs.	360.00
23 ft.x 64 ft.	1142 lbs.	532.00	119 lbs.	420.00
23 ft.x 80 ft.	1400 lbs.	602.15	136 lbs.	448.00
23 ft.x 96 ft.	1672 lbs.	723.82	153 lbs.	504.00
23 ft.x112 ft.	1944 lbs.	845.49	187 lbs.	616.00
23 ft.x128 ft.	2216 lbs.	967.17	204 lbs.	672.00
23 ft.x144 ft.	2488 lbs.	1088.84	221 lbs.	728.00
23 ft.x160 ft.	2760 lbs.	1210.51	238 lbs.	784.00
23 ft.x176 ft.	3032 lbs.	1332.18	272 lbs.	896.00

Size of House	TROX WOOD FRAME		"MYLAR"	
	Wt.	Price	48 in. Wt.	5 Mil W-1 Price
30 ft.x 48 ft.	942 lbs.	\$517.95	120 lbs.	\$420.00
30 ft.x 64 ft.	1246 lbs.	693.84	150 lbs.	490.00
30 ft.x 80 ft.	1550 lbs.	785.73	180 lbs.	588.00
30 ft.x 96 ft.	1854 lbs.	944.82	210 lbs.	686.00
30 ft.x112 ft.	2158 lbs.	1103.91	225 'bs.	735.00
30 ft.x128 ft.	2462 lbs.	1263.00	255 lbs.	833.00
30 ft.x144 ft.	2766 lbs.	1422.09	285 lbs.	931.00
30 ft.x160 ft.	3070 lbs.	1581.18	315 lbs.	1029.00
30 ft.x176 ft.	3374 lbs.	1740.27	345 lbs.	1127.00

**F.O.B. points:** Trox wood frame, f.o.b. Battle Creek, Mich. "Mylar" f.o.b. West Chicago.

## Other Uses for Weatherable "MYLAR": COLD FRAMES



Cold frame sash covered with 5 mil W-2 "Mylar" at G. J. Ball, Inc., West Chicago, Illinois. "Mylar" is ideal for cold frame sash since the life of "Mylar" will be greatly extended when the frames are stored in the summer. Frames are light weight with no glass to break. Allen Fairbank, G. J. B., Inc., in the photo.

## RECOVERING OLD HOUSES

Rather than replace old leaky glass and reputty, old houses may easily be recovered with Du Ponts Weatherable "Mylar." Alternate bars may be removed for a lighter house. Recovering is done at a fraction of reglazing costs and results in a good looking house serviceable for many more years.

## INTERIOR PARTITIONS

"Mylar" is ideal for interior partitions in a growing house to separate areas having different temperature and humidity requirements. "Mylar" is strong, resists damage from rough handling, and will last for an extremely long time inside a house.

**SEE NEXT PAGE FOR "MYLAR" PRICES**





"Mylar" house built by Jerry Kraus (left) and Howard Armbruster of Cut Bank Greenhouse & Floral Co., Cut Bank, Mont. "Our plastic house is holding up wonderfully and we have had some rough winds this spring. The weather station clocked winds up to 77 mph and the temperature got down to 30° below this last winter. Our Carnation production was better this year under plastic and the quality terrific."



"I've used 8 different films on seven 150-ft. plastic houses, and thus far Weatherable 'Mylar' is definitely superior to all others. I've had a 'Mylar' house up since Jan., '58. It went through the big snowstorm that March without any trouble and has also withstood several windstorms and sub-zero temperatures since then." Says Alexander Forbes III, Forbes Garden Center, Route 10, Hanover, New Jersey. Pictured is the interior of the Forbes "Mylar" house, Mr. Forbes in the insert.

## PRICES OF "MYLAR"

### New Type W-1

Designed for one side exposure to the sun—recommended for greenhouse glazing.

#### ROLL SPECIFICATIONS

100 ft. roll			1000 ft. Roll		
Width	Wt. per Roll	Sq. Ft. Per Roll	Width	Wt. per Roll	Sq. Ft. Per Roll
42 in.	15 lbs.	350	42 in.	130 lbs.	3500
48 in.	17 lbs.	400	48 in.	150 lbs.	4000
51 in.	18 lbs.	425	51 in.	160 lbs.	4250

#### PRICES PER SQUARE FOOT

	100-ft. rolls	1000-ft. rolls
300-2999 sq. ft. . . . .	\$0.15	...
3000-23,999 sq. ft. . . . .	.14	.13 1/2
24,000 sq. ft. and up . . . . .	.13 1/2	.13

3% discount for **cash with order**. Minimum order, 1 roll. F.O.B. West Chicago.

### Type W-2

Designed for exposure to sun on either side—recommended for cold frames and other reversible structures.

#### ROLL SPECIFICATIONS

100 ft. Roll			1000 ft. Roll		
Width	Wt. per Roll	Sq. Ft. Per Roll	Width	Wt. per Roll	Sq. Ft. Per Roll
36 in.	13 lbs.	300	36 in.	112 lbs.	3000
42 in.	15 lbs.	350	42 in.	130 lbs.	3500
48 in.	17 lbs.	400	48 in.	150 lbs.	4000

#### PRICES PER SQUARE FOOT

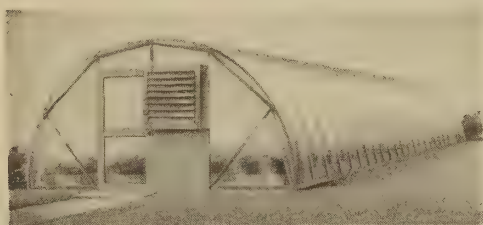
	100-ft. rolls	1000-ft. rolls
3000-2999 sq. ft. . . . .	\$0.17	...
3000-23,999 sq. ft. . . . .	.16 1/2	.16
24,000 sq. ft. and up . . . . .	.16	.15 1/2

3% discount for **cash with order**. Minimum order, 1 roll. F.O.B. West Chicago.

**NOTE:** Rolls of different lengths, types and widths may be combined to determine total number of square feet for price.

**Angiers Double Face Adhesive. No. PT5502.** Suitable for patching "Mylar", Polyethylene, and other plastic films. 1 roll, 1 inch x 72 yards, \$3.60 per roll. Prepaid.

# for Seasonal Plastic Houses - POLYETHYLENE



The Bartlett structure of low cost, lifetime aluminum. Polyethylene cover clamps into place. Excellent for spring plant production, and as a sales area—also for fall crops. Write us for particulars and prices.

For creating low cost temporary greenhouse space—particularly in the spring—no plastic is more practical or more inexpensive than Polyethylene. It cannot stand the high ultra violet rays of the summer sun, however, and goes to pieces by late summer in most climates. Available in wide sheets, it can be quickly and easily applied to a greenhouse structure. Polyethylene is almost transparent, although slightly milky in appearance. All widths are seamless.

When used to insulate the inside of a glass house or Mylar house, it has been known to reduce heating bills by 30%. Also proven to be very suitable for use on cold frames, greenhouse partitions, and for chemical fumigation covers. Not suitable as a steam sterilization cover, for which we recommend vinyl Fumicovers (page 99).

## POLYETHYLENE PRICES

				5 or more rolls						5 or more rolls	
Gauge	Width	Length	Shipping Weight	Per Roll	Per Roll	Gauge	Width	Length	Shipping Weight	Per Roll	Per Roll
.002	9 ft.	x100 ft.	12 lbs.	\$ 6.45	\$ 6.00	.006	10 ft.	x100 ft.	34 lbs.	\$20.25	\$18.90
.002	16 ft.	x100 ft.	18 lbs.	10.80	10.10	.006	12 ft.	x100 ft.	39 lbs.	24.30	22.70
.004	3 ft.	x100 ft.	8 lbs.	4.10	3.90	.006	14 ft.	x100 ft.	45 lbs.	28.35	26.50
.004	6 ft.	x100 ft.	15 lbs.	8.25	7.70	.006	16 ft.	x100 ft.	53 lbs.	32.40	30.25
.004	8 ft.	x100 ft.	18 lbs.	10.80	10.10	.006	20 ft.	x100 ft.	63 lbs.	40.50	37.80
.004	10 ft.	x100 ft.	24 lbs.	13.50	12.60	.006	24 ft.	x100 ft.	74 lbs.	48.60	45.35
.004	12 ft.	x100 ft.	27 lbs.	16.20	15.15	.006	28 ft.	x100 ft.	86 lbs.	56.70	52.90
.004	14 ft.	x100 ft.	31 lbs.	18.90	17.65	.006	32 ft.	x100 ft.	98 lbs.	64.80	60.50
.004	16 ft.	x100 ft.	36 lbs.	21.60	20.15	.008	12 ft.	x100 ft.	53 lbs.	32.40	30.25
.004	20 ft.	x100 ft.	43 lbs.	27.00	25.20	.008	16 ft.	x100 ft.	68 lbs.	43.20	40.30
.004	24 ft.	x100 ft.	51 lbs.	32.40	30.25	.008	20 ft.	x100 ft.	84 lbs.	54.00	50.40
.004	28 ft.	x100 ft.	59 lbs.	37.80	35.25	.008	24 ft.	x100 ft.	99 lbs.	64.80	60.50
.004	32 ft.	x100 ft.	67 lbs.	43.20	40.30						
.006	3 ft.	x100 ft.	11 lbs.	6.20	5.80						
.006	6 ft.	x100 ft.	21 lbs.	12.15	11.35						

PRICES, f.o.b. West Chicago. Write for prices on 30 rolls or more. SAMPLES AVAILABLE UPON REQUEST.



# Florist Supplies



## BLACK SHADE CLOTH

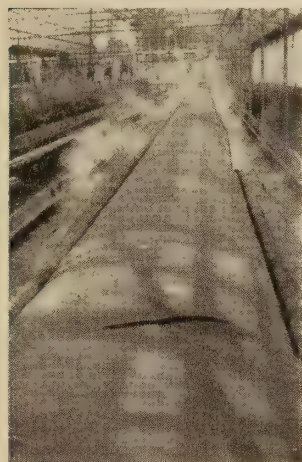
**BLACK CLOTH** (For Day Length Control on Mums, etc.)  
Available **UNSEWED** in 3 ft. widths, cut to any length.  
May be ordered **SEWED** to widths in multiples of 1½ ft., such as 9 ft., 10½ ft., 12 ft., 13½ ft., 15 ft., etc.

	Price per Sq. Yard
	Sewed      Unsewed
<b>American Black Sheen</b> .....	<b>\$0.65      \$0.59</b>

**Knights Black Sheen.** Heavier and more opaque;  
best for off-season .....

**.71 ½      .65 ½**

On orders for less than minimum of 100 sq. yds. sewed or 300 sq. yds. unsewed, a charge of \$2.00 is added. F.O.B. New Jersey.



## PLASTIC FUMI-COVERS

### For Steam Sterilizing

#### Black or Clear 3 Gauge Vinyl

3 gauge vinyl plastic is light weight, tough, and pliable. Temperature range 10° to 280°F. Ideal for steam sterilizing covers. F.O.B. Chicago, Ill.

Width	100 ft. Length	150 ft. Length
6½ ft. ....	<b>\$20.80</b>	<b>\$31.20</b>
8 ft. ....	<b>25.60</b>	<b>38.40</b>
10 ft. ....	<b>32.00</b>	<b>48.00</b>
12 ft. ....	<b>38.40</b>	<b>57.60</b>

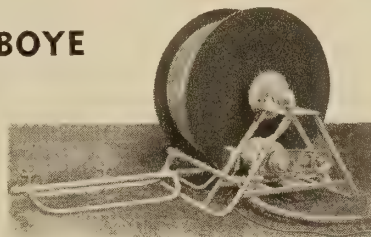
#### Chlorophyll Green 8 Gauge Vinyl (A heavier grade)

Chlorophyll green sheeting is made only of extra heavy duty 8 gauge vinyl plastic. Temperature range 10°F to 280°F. Chlorophyll green light transmission is less than 1%. Life expectancy of 8 gauge vinyl is 3 times that of 3 gauge vinyl. F.O.B. Chicago, Ill.

Width	100 ft. Length	150 ft. Length	Width	100 ft. Length	150 ft. Length
6½ ft. ....	<b>\$38.35</b>	<b>\$57.55</b>	10 ft. ....	<b>\$59.45</b>	<b>\$89.20</b>
8 ft. ....	<b>47.20</b>	<b>70.80</b>	12 ft. ....	<b>69.60</b>	<b>104.40</b>

## HOSEBOYE

Watering is one of your most time-consuming jobs—why not use a **HOSEBOYE**? From our own experience, we find it does a better job of watering, and at a small fraction of the hand labor costs.



**HOSEBOYE** is an automatic, economical method of watering. You need only place this electric powered hose reel and sprinkler in position—turn it on—and go about your other jobs.

**HOSEBOYE**—Complete with 150 ft. ¾-in. inside diameter plastic hose, sled and 4 special Veejet Nozzles for Universal Application Assembly B; **\$395.00.** F.O.B. Cincinnati, Ohio.

## GRO-HOSE AUTOMATIC BENCH WATERER

### Does a Better Job Than Hand Watering!

Scientifically designed black Polyethylene hose, 2¼ in. wide, has **FOUR** holes spaced every 8 in. apart, waters the full length and breadth of your benches—**AUTOMATICALLY.**

Ideal for chemical fertilization. Installed in a few minutes and requires no attendance. Saves many man hours of labor. Operates on 1 lb. pressure. Keeps foliage dry.

Each row of "Gro-Hose" gently and thoroughly waters a two-foot strip. Two rows (as shown) are needed for the average bench. For benches wider than four feet, three rows are recommended.

Headers made of copper tubing and brass couplings are used to connect "Gro-Hose" to your present water supply. Gro-Hose is most effective when used in lengths of not more than 75 ft. in each direction. For example: we suggest that for a 100-ft. bench four 50-ft. lengths and a four way header (in the center of the bench) be used and not two 100-ft. lengths and a two way header (at the end of the bench). **For detailed information, please send for circular.**

Gro-Hose polyethylene tubing\* is supplied in custom length to fit your benches. When ordering specify length desired.

\*Each length supplied with a set of safety end clips and standard, all brass, hose coupling.

#### GRO-HOSE TUBING

0 to 1000 ft. .... **9½¢** per ft.  
1000 ft. to 5000 ft. **8½¢** per ft.  
Over 5000 ft. .... **7½¢** per ft.  
Reel of 500 ft.  
(without couplings) .. **\$35.00**

#### GRO-HOSE HEADERS

Two-Way ..... **\$3.50** each  
Four-Way ..... **4.25** each  
Prices F.O.B. New York, N. Y.  
(2000 ft. or more prepaid).

## STEAM-FLO SOIL STERILIZER

Here's a machine that will sterilize a bed 5x50 ft. in 2 hours—maintaining from 8 to 10 lbs. pressure, burning from 4 to 4½ gallons of No. 1 fuel oil per hour **AND** you do not have to handle the soil.

Completely equipped including automatic water feed and low water cut off. Not including tires (uses 16 in. rim tires). Price: **\$685.00.**

25 ft. Steam Hose 1¼ in. with two female connectors. Price: **\$41.00.**  
Aluminum tubing 1.9 in. outside diameter, flanged and drilled in 10 ft. lengths. Price: **45¢** per ft.

Weston Thermometer, for soil heat testing, 2 in. head—8 in. stem. Price: **\$9.00** each. F.O.B. Cincinnati, Ohio.

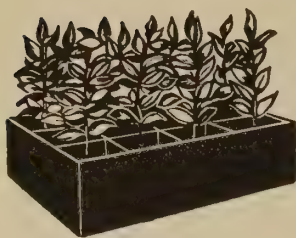


The Steam-Flo Soil Sterilizer—about 15 HP, capable of steaming 250 sq. ft. of bench area in 2-3 hours.



# BIRD'S Vita-Bands and Pots

## VITA-BANDS



Nutrient-treated Vita-Bands, of a fibre resin construction, enable seedlings and cuttings to make very rapid and luxuriant growth, especially in the early stages. They retain moisture and cut your watering time. Three types of Vita-Bands are offered:

**VITA-BAND 10** for growing periods of 8 to 10 weeks.

**VITA-BAND D** disintegrates in the soil when transplanted—no need to remove band.

**VITA-BAND H** for extra-long growing periods.

### PRICES PER 1000

	1 1/2 x 1 1/2 x 2 1/2	1 3/4 x 1 3/4 x 2 1/2	2 x 2 x 2 1/2	2 x 2 x 3	2 1/2 x 2 1/2 x 3	3 x 3 x 3	4 x 4 x 3	4 x 4 x 4
<b>Vita-Band 10</b>								
0-8,000	\$4.80	\$5.15	\$5.40	\$5.90	\$6.40	\$7.10	\$9.20	\$11.45
10,000-24,000	4.70	5.00	5.25	5.75	6.25	6.90	9.00	11.25
26,000-48,000	4.60	4.85	5.10	5.60	6.10	6.75	8.80	11.05
50,000-200,000	4.45	4.75	5.00	5.45	5.95	6.55	8.55	10.70
Pack per case	2000	2000	2000	2000	2000	1000	1000	500
Wt. per case	33 lbs.	38 lbs.	42 lbs.	51 lbs.	63 lbs.	37 lbs.	50 lbs.	33 lbs.
<b>Vita-Band D</b>								
0-8,000	\$4.95	\$5.30	\$5.50	\$6.20	\$6.45	\$7.25	\$9.45	\$11.80
10,000-24,000	4.85	5.15	5.35	6.05	6.30	7.05	9.25	11.60
26,000-48,000	4.75	5.00	5.20	5.90	6.15	6.85	9.05	11.40
50,000-200,000	4.60	4.90	5.10	5.75	6.00	6.70	8.90	11.05
Pack per case	2000	2000	2000	2000	2000	2000	1000	1000
Wt. per case	18 lbs.	21 lbs.	23 lbs.	28 lbs.	34 lbs.	40 lbs.	27 lbs.	35 lbs.
<b>Vita-Band H</b>								
0-8,000	....	\$6.25	\$6.60	\$7.75	\$8.30	\$8.70	\$10.70	\$13.10
10,000-24,000	....	6.10	6.45	7.55	8.10	8.50	10.45	12.90
26,000-48,000	....	5.95	6.30	7.35	7.90	8.30	10.20	12.70
50,000-200,000	....	5.80	6.15	7.20	7.70	8.10	9.95	12.30
Pack per case	....	1000	1000	1000	1000	1000	500	500
Wt. per case	....	26 lbs.	30 lbs.	36 lbs.	40 lbs.	52 lbs.	35 lbs.	46 lbs.

### SOLD IN CASE LOTS ONLY

Inquire about prices on larger quantities.

## TOM THUMB FLATS

Designed to hold 1 dozen Vita-Bands. Size No. 1 holds 12 1 3/4 x 2 1/2 in. Bands. Size No. 2 holds 12 2 x 2 1/2 in. Bands.

	Size No. 1	Size No. 2
<b>PRICE PER 1000</b>	<b>\$44.70</b>	<b>\$49.60</b>
Pack per case	250	250
Wt. per case	55 lbs.	62 lbs.

### SOLD IN CASE LOTS ONLY

## PLEASE NOTE!

Bird Vita-Bands, Tom Thumb Flats, Perennial Pots, Vita-Pots and Red Pots are shipped either F.O.B. West Chicago, or East Walpole, Mass.

## VITA-POTS and RED POTS



**VITA-POTS:** Sturdy, resinous pots, nutrient-treated. Grow and ship in same pot. Widely used for small perennials and ornamentals of all kinds.

**RED POTS:** For shipping only. Protects root ball from breakage—light weight.

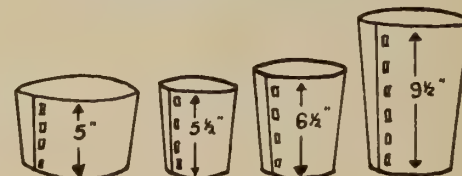
### VITA-POTS

### RED POTS

Size	Wt.	Per 1000	Wt.	Per 1000
2 in.	—	—	10 lbs.	... \$ 9.00
2 1/4 in.	25 lbs.	... 16.45	12 lbs.	... 9.00
2 1/2 in.	31 lbs.	... 17.05	16 lbs.	... 9.10
3 in.	43 lbs.	... 19.15	22 lbs.	... 9.60
3 1/2 in.	—	—	32 lbs.	... 12.80
4 in.	76 lbs.	... 28.25	42 lbs.	... 15.50
5 in.	—	—	66 lbs.	... 19.00

**PACKING:** 4- and 5-inch, 500 per case. All others 1000 per case.

## PERENNIAL POTS



A better perennial pot for Roses, vines, shrubs and other perennials. Made of a tough material with hard, smooth coating inside and out. Solid stapled bottom with openings for drainage.

5-inch high pot for use as a Mum pan.

5 1/2-inch high pot designed for small perennials and bulbs.

6 1/2-inch high pot designed for larger perennials, junior Roses and vines.

9 1/2-inch high pot designed for larger Roses, larger perennials such as Peonies, large vines and shrubs.

**NOTE:** Order by height—not top diameter.

Height	Top Dia.	Wt. per 1000	Per Case of 200	Per 1000
5 in.	8 in.	325 lbs.	... \$13.70	\$65.00
5 1/2 in.	5 in.	165 lbs.	... 10.00	47.50
6 1/2 in.	6 in.	220 lbs.	... 12.30	58.50
9 1/2 in.	7 in.	355 lbs.	... 14.50	69.00

Minimum order, case of 200 of one size, 3 cases at 1000 price. Case lots only.

## Wood Pot Labels

Unprinted

### COPPER WIRED TREE LABELS

Size	Plain	Painted*
3 1/2 in. x 5/8 in.	1000	1000
	\$4.15	\$5.10

### POT LABELS

Size	Plain	Painted*
4 in. x 5/8 in.	1000	1000
5 in. x 5/8 in.	3.85	4.60
6 in. x 5/8 in.	4.20	5.10

### QUANTITY DISCOUNTS

2000 to 4000 2%; 5000 to 9000 3%; 10,000 up 5%.

### POT LABELS CONT.

	Plain	Painted*
	Per 500	Per 1000
8 in. x 5/8 in.	\$3.30	\$5.95
10 in. x 5/8 in.	3.90	7.20
12 in. x 5/8 in.	4.60	8.45

### GARDEN LABELS

	Plain	Painted*
	Per 250	Per 500
8 in. x 7/8 in.	\$2.50	\$4.70
10 in. x 7/8 in.	2.85	5.20
	10.10	3.25
	6.15	11.50

	Plain	Painted*
	Per 100	Per 500
12 in. x 1 1/8 in.	\$2.15	\$9.35
	\$17.80	\$2.45
	\$10.70	\$20.30

**POT LABELS ARE CARTONED ONLY IN QUANTITIES LISTED ABOVE**

**We Cannot Break Cartons**

**ALL PRICES NET—PREPAID IN U.S. EAST OF THE ROCKIES;**

U.S. WEST OF ROCKIES 10% Additional Charge—ALASKA and HAWAII 15% Additional Charge

All shipments under the above terms to be made by regular parcel post or truck at our option.

\*PAINTED LABELS are lightly coated with a thin paint preservative, in accordance with government standards, to insure longer life and greater legibility.

### WOOD LABELS, Printed

We offer **Printed**, 4-inch labels in convenient bundles of 100 of all **Sweet Sixteen Varieties** plus other popular varieties. See page 3.

For  
**JIFFY-POTS**

See pages 108-119.





# BALL Better Plant Bands

for Bedding Plants . . Chrysanthemums . . Perennials  
Nursery Stock . . Carnations . . Vegetables



**For many purposes it's better to use Bands because:**

Plant Bands are **less expensive** than pots . . . . .  
**firm, clean and disease-free** . . . . . **hold more soil**  
than a pot of equal diameter . . . . . **fit close—no**  
**waste space** . . . . . **lighter** to handle and store  
. . . . . **need less water** . . . . . **keep soil ball in-**  
**tact** . . . . . **rapidly filled**—faster than small pots  
one at a time . . . . . **pack tightly and compactly**  
for small plant shipping . . . . . **produce high qual-**  
**ity plants** as proven through years of use by growers  
everywhere.

**It's always better to use Ball Bands because:**

They are made of sturdy, **long-fibered, fine-grained basswood** and fastened with **rust-resistant staples** . . . . .  
**treated** before shipping to prevent mildew and fungous growths . . . . . **air-dried and kiln-**  
**dried** to eliminate excess moisture, making them **lighter in weight** for shipping (as much as 25% to 50% lighter than others) . . . . . **packed in two**  
**valuable greenhouse flats at no extra cost** . . . . .  
a "best buy"—**tops in quality and low in price on the basis of a final delivered cost.**

Vegetables such as Peppers can be handled conveniently in Veneer Plant Bands. A PlanTray of twelve banded plants may be sold as a unit, or the individual plants taken out—no root disturbance in either case.



Delphinium—Veneer Plant Bands are especially nice for perennials.

Various sizes of Plant Bands may be combined to obtain quantity price.

Size	Shipping Units of	Weight per 1000
1 3/4 x 1 3/4 x 2	2,000	17 lbs.
1 3/4 x 1 3/4 x 2 1/2	2,000	18 lbs.
2 x 2 x 2	2,000	19 lbs.
2 x 2 x 2 1/2	2,000	20 lbs.
2 x 2 x 3	2,000	21 lbs.
2 1/2 x 2 1/2 x 2 1/2	2,000	22 lbs.
2 1/2 x 2 1/2 x 3	2,000	23 lbs.
3 x 3 x 3	1,000	33 lbs.
3 x 3 x 4	1,000	45 lbs.
4 x 4 x 3	1,000	45 lbs.
4 x 4 x 4	1,000	48 lbs.
4 x 4 x 4 with bottoms	1,000	78 lbs.

Prices F.O.B. West Chicago, Ill. or Isle, Minn.

**NOTE:** Plant Band sizes 1 3/4 x 1 3/4 x 2 1/2 and 2 x 2 x 2 1/2 also stocked during the fall and early winter in Dallas, Texas, and shipped f.o.b. Dallas.

Per 1000 in quantities as shown below	0-9,000	10,000-24,000	25,000-49,000	50,000 Up
1 3/4 x 1 3/4 x 2	\$6.20	\$5.80	\$5.40	\$5.20
1 3/4 x 1 3/4 x 2 1/2	6.35	5.95	5.55	5.30
2 x 2 x 2	6.35	5.95	5.55	5.30
2 x 2 x 2 1/2	6.45	6.05	5.65	5.40
2 x 2 x 3	6.95	6.50	6.10	5.80
2 1/2 x 2 1/2 x 2 1/2	6.95	6.50	6.10	5.80
2 1/2 x 2 1/2 x 3	7.45	6.95	6.50	6.20
3 x 3 x 3	7.85	7.35	6.85	6.60
3 x 3 x 4	8.20	7.70	7.20	6.80
4 x 4 x 3	8.20	7.70	7.20	6.80
4 x 4 x 4	9.20	8.70	8.10	7.80
4 x 4 x 4 with bottoms	14.40	13.90	13.30	13.00

## BALL Veneer "PlanTrays"

**PlanTrays** are designed to hold the various sizes of plant bands, or may be used without bands, as a small pack for plants. Several sizes are well suited for handling Jiffy-Potted plants. Ball **PlanTrays** are manufactured in the same careful manner as Ball Veneer Plant Bands. They are shipped knocked down but with one edge of the bottom stitched to a side so that they may be "set up" in a jiffy. Thoroughly air-dried and kiln-dried, they are lighter in shipping weight. The **X-type** holds 12 bands. The **SX-type** holds 25 bands.

Various sizes of PlanTrays may be combined to obtain quantity price.

Size	Dimensions	Shipping Units of	Weight per 1000	0-875	1000-2375	2500- Up
No. 1-X	(5 7/8 x 7 3/4 x 2 1/2—holds 12 1 3/4 x 2 1/2 bands)	125	200 lbs.	\$60.00	\$56.55	\$53.00
No. 2-X	(6 1/2 x 8 1/2 x 2 1/2—holds 12 2 x 2 1/2 bands)	125	240 lbs.	65.40	61.60	57.75
No. 3-X	(8 1/8 x 10 5/8 x 2 1/2—holds 12 2 1/2 x 2 1/2 bands)	125	288 lbs.	72.50	68.25	63.95
No. 4-X	(9 5/8 x 12 1/2 x 2 1/2—holds 12 3 x 3 bands)	125	320 lbs.	79.50	74.90	70.00
No. 1-SX	(9 3/8 x 9 3/8 x 2—holds 25 1 3/4 x 2 bands)	125	288 lbs.	72.50	68.25	63.95
No. 2-SX	(10 1/2 x 10 1/2 x 2—holds 25 2 x 2 bands)	125	320 lbs.	79.50	74.90	70.00
No. 3-SX	(13 x 13 x 2 1/2—holds 25 2 1/2 x 3 bands)	125	400 lbs.	99.50	95.50	91.25

Prices F.O.B. West Chicago, Ill. or Isle, Minn.



A well grown crop of Carnations in Veneer Plant Bands.

Lower right: D. Hill Nursery, Dundee, Ill. pioneered the use of 2 1/2 x 2 1/2 x 3 inch bands in No. 3-SX PlanTrays for growing evergreen cuttings in frames before lining out. Hill's treat the bands and trays with a wood preservative so that they will stand up for two years. We can give you the formula for this. Hill's also find Plant Bands and PlanTrays ideal for growing the many thousands of Pachysandra plants they produce (center). For many years annuals such as Asters shown below left have been grown and merchandized in Plant Bands.







# Plastic Poly-Paks

**LIGHTWEIGHT BUT STRONG**  
**—CLEAN TO HANDLE—**  
**ATTRACTIVE IN COLOR**

A new plant container designed to hold a dozen plants, made of plastic—**strong but light**. Poly-Paks are lightly fastened together at the corners to form units of 6 or 8 so that they may be dropped readily into a flat, thus filling the flat completely with paks in one handling. **Save time and labor**. When ready for sale, Poly-Paks are very easily separated from one another by a slight pull.

An **attractive gray** in color, Poly-Paks are **clean to handle**—**mold cannot form** on them. They support good, uniform plant growth—do not absorb nutrients from the soil. Nine  $\frac{1}{4}$  in. holes in ribbed bottom provide **good drainage**.

## SIZE—DESCRIPTION

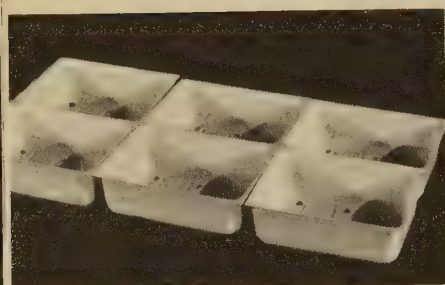
- Model A-6** Unit of 6 Paks joined to measure  $20\frac{3}{8} \times 10\frac{3}{8} \times 2\frac{3}{8}$  ins. deep. Individual paks measure  $5 \times 6\frac{1}{2}$  ins. inside top.
- Model A-8** Unit of 8 Paks joined to measure  $20\frac{3}{8} \times 10\frac{5}{8} \times 2\frac{3}{8}$  ins. deep. Individual paks measure  $4\frac{3}{4} \times 5$  ins. inside top.
- Model B-6** Unit of 6 Paks joined to measure  $15\frac{3}{4} \times 13\frac{1}{4} \times 2\frac{3}{4}$  ins. deep. Fits into standard Tomato or Grape lug. Individual paks measure  $6\frac{1}{4} \times 4\frac{7}{8}$  ins. inside top.
- Model C-8** Unit of 8 Paks joined together to measure  $21 \times 13\frac{1}{4} \times 2\frac{1}{2}$  ins. deep. Individual paks measure approximately  $5 \times 6\frac{1}{2}$  in. (Fit Bay Area Flats.)

## PRICES

Size	0-900	1000-4900	5000-49,900	50,000 up
	Per 100 units		Per 1000 units	
A-6 (6 paks per unit) ..	\$26.00	\$240.00	\$220.00	\$200.00
A-8 (8 paks per unit) ..	26.00	240.00	220.00	200.00
B-6 (6 paks per unit) ..	26.00	240.00	220.00	200.00
C-8 (8 paks per unit) ..	31.20	288.00	264.00	240.00

Shipping weight per case of 100 units: A-6, A-8 or B-6, 29 lbs.; C-8, 40 lbs.

**Minimum order:** 100 units. Prices prepaid east of the Rockies at above prices. A-6, A-8 and B-6 will be prepaid west of the Rockies in continental U. S. A., excluding Alaska, at \$1.00 per 100 units extra; C-8 at \$1.25 per 100 units extra.



UNIT OF MODEL A-6



UNIT OF MODEL B-6



Harry Pinter of Pinter's Greenhouse, Belleville, Michigan, shown with an A-8 Poly-Pak of Salvia. Harry grows a hundred per cent of his bedding plants in Poly-Paks. He says: "A flat of plants may have a poor stand and you're forced to sell at a sacrifice. A flat of plants in Poly-Paks is always worth full value, as an incomplete Pak can be replaced with a full one. We find that the saving more than covers the cost of the paks."

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At lower left, John Kyne of Geo. J. Ball is looking over a nice lot of Marigolds in a C-8 Poly-Pak with one of the Neishi Bros. of Oakland, California. Lower right, Di Crecchio Nurseries of Secane, Pennsylvania find the B-6 Poly-Paks ideal for the hundreds of thousands of annuals and Pansies that they grow. Shown is Carmine Di Crecchio.



Mr. and Mrs. Joe Pinter of Pinter's Greenhouse, Ypsilanti, Michigan, with Pink Magic Petunias in Plastic Poly-Paks. Joe says the Poly-Pak is the best Pak for ease of handling, saving of labor, and top quality plant growth. He is the originator of the Poly-Pak and it was designed to his specifications.



Mr. and Mrs. A. F. Boucard and son Al of Detroit, large wholesale bedding plant growers. The Boucards say: "Poly-Paks are a big step forward in the plant business. We find we can control the growth better in Paks than we can in open flats."





# Plastic Poly-Pots and Poly-Trays

Gro. J. Ball  
INC.

**POLY-POTS** are square plastic pots lightly fastened together at the corners to form units of 12 or 15, in the same manner that Plastic Poly-Paks are joined.

**Made of lightweight plastic**, attractive gray in color, they are convenient to handle.

**Suggested uses:** Bedding plants, vegetables, perennials, foliage plants, etc.

**Sizes:** 2-inch. 2x2x2 $\frac{3}{8}$  in. deep, in units of 12 (4x3).  
2 $\frac{1}{4}$ -inch. 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 $\frac{3}{4}$  in. deep, in units of 12 (4x3).  
4-inch. 4x4x3 in. deep, in units of 15 (5x3).

**POLY-TRAYS** are designed to hold a unit of 12 2-inch Poly-Pots.

May also be used independently as a pak.

**Over-all size:** 6 $\frac{3}{4}$ x9x2 $\frac{1}{4}$  inches deep.

## POLY-POT PRICES

Quantity	2-inch Per 1000	2 $\frac{1}{4}$ -in. Per 1000
3,000- 27,000	\$9.00	\$12.25
30,000- 72,000	8.50	11.50
75,000-297,000	8.00	10.75
300,000 up	7.50	10.00
Wt. per case	18 lbs.	26 lbs.

Packed 3,000 per case. Prepaid east of the Rockies. Prepaid west of the Rockies at 50¢ per 1,000 additional.

	4-inch Per 1000
1,500-13,500 . . . . .	\$22.00
15,000-43,500 . . . . .	20.00
45,000-148,500 . . . . .	18.00
150,000 up . . . . .	16.00
Wt. per case . . . . .	33 lbs.

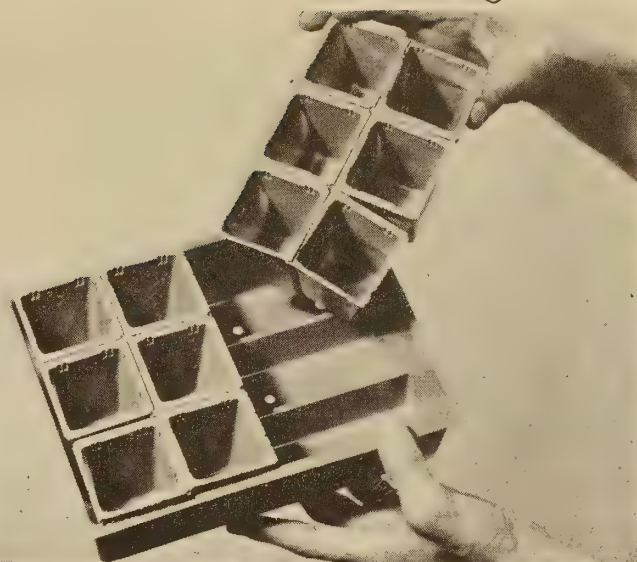
Packed 1500 per case. Prepaid east of the Rockies. Prepaid west of the Rockies at \$2.00 per 1000 additional.  
Available about Jan. 1, 1960.

## POLY-TRAY PRICES

**Model 212—to hold 12 2x2x2 $\frac{3}{8}$  in pots.**

Quantity	Prices Per 1000
250- 2,250	\$84.90
2,500- 6,000	79.90
6,250-24,750	74.90
25,000 up	69.90

Packed 250 per case. Wt., 18 lbs. Prepaid east of the Rockies. Prepaid west of the Rockies at \$5.00 per 1,000 additional.

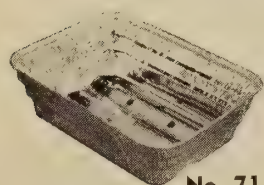


Milwaukee Journal Photo

A. J. Bowden of Bowden Greenhouses, Lenoir City, Tenn., is a pioneer in the use of Poly-Pots and Poly-Trays. He wholesales many thousands of dozens of bedding plants and garden vegetable plants in them every season... finds them easy to handle... easy to knock out of... and plant quality cannot be beat.



## Alumipaks\*



No. 711

Sparkling, eye-catching containers for growing and selling bedding plants—both annuals and vegetables. Strong and durable. Three sizes available:



No. 804

**No. 711.** 5 $\frac{1}{2}$ x7 $\frac{1}{2}$ x2 $\frac{3}{8}$  in. deep **No. 804.** 4 $\frac{1}{4}$ x8 $\frac{1}{4}$ x2 in. deep.  
**No. 808.** 8 $\frac{1}{2}$ x4 $\frac{1}{2}$ x2 $\frac{1}{4}$  in. deep.

## Price per 1000

	No. 804	No. 808	No. 711
1,000- 4,000	\$49.00	\$50.00	\$53.00
5,000- 9,000	47.00	48.00	51.50
10,000-24,000	45.00	46.00	50.50
25,000-49,000	43.00	44.00	49.50
50,000 Up	40.00	41.00	48.00
Wt. per case	34 lbs.	42 lbs.	50 lbs.

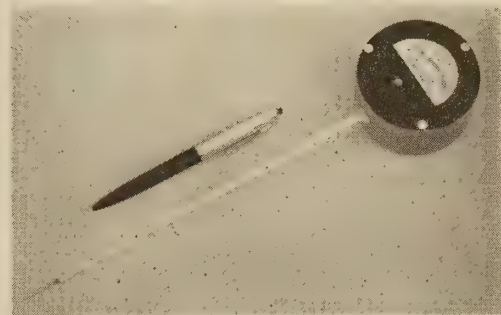
Prices prepaid from factory on 200 lbs. or over; otherwise, F.O.B. West Chicago, Ill. Allow 3-4 weeks on prepaid shipments. Packed 1,000 per case. Minimum order 1,000.

\*Trademark Reynolds Metals Co.

SEND FOR FREE SAMPLES

## M-Scope

## MOISTURE COMPARATOR



A new instrument for measuring and comparing soil moisture. Consists of a round gauge with a 9-inch stem. Electrical current gives moisture readings on a scale at various depths as the stem is pushed into the soil. A comparison of readings at different times establishes the point at which soils need to be watered. Operated by a dry cell that needs replacement every year or two. Easy to operate—easy to read—easy to carry. **Postpaid, each \$12.95.**



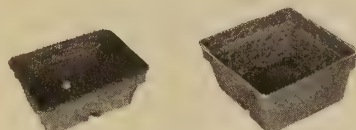


# MARKET-PAKS

**Stronger and Better  
Than Ever — Lower Prices Too!**

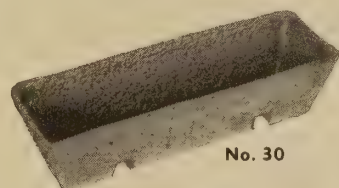
A slight change in the formula for the material from which Market-Paks and Half-Flats are made—hard pressed wood fiber impregnated with asphalt—has resulted in a **stronger** container . . . **longer lasting** . . . clean in appearance and more **resistant to mold formation**. Coupled with a **reduction in prices**, these bonus features make the improved Market-Pak a "best buy" in bedding plant containers.

A dozen annuals in Market-Pak No. 42 is the most popular unit of sale throughout the country. Above, White Magic Petunia.

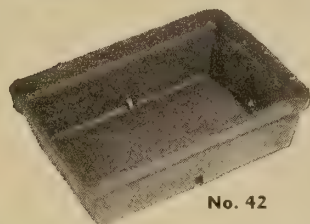


No. 24

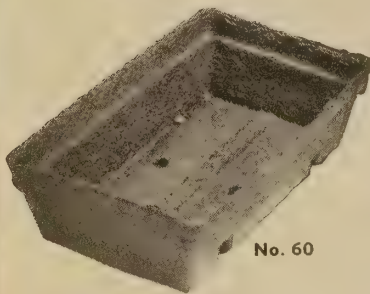
No. 28



No. 30



No. 42



No. 60

## MARKET-PAK PRICES PREPAID on 150 lbs. or More East of the Rocky Mountains Only

**No. 24.**  $4\frac{1}{8} \times 5\frac{3}{4} \times 2\frac{1}{2}$  in. deep. A budget-size package suitable for a dozen upright annuals such as Marigolds or Zinnias spaced close or  $\frac{1}{2}$  dozen spreading plants such as Petunias or Pansies. This size is well adapted to areas and markets where younger plants are sold. Packed 250 per case—17 lbs. per case. Minimum order 250.

Quantity	Price per 1000
250-750 (250, \$7.75) . . . . .	\$31.00
1,000-9,750 . . . . .	28.00
10,000-49,750 . . . . .	26.00
50,000 up . . . . .	24.00

**No. 28.**  $5\frac{1}{8} \times 5\frac{1}{2} \times 2\frac{3}{4}$  in. deep. Also a budget-sized pack suitable for a dozen plants, but allowing a little wider spacing than No. 24. Fit 8 to a flat  $11 \times 20\frac{1}{2}$  inches, inside diameter. Packed 250 per case—23 lbs. per case. Minimum order 250.

Quantity	Price per 1000
250-750 (250, \$10.25) . . . . .	\$41.00
1,000-9,750 . . . . .	37.00
10,000-49,750 . . . . .	35.00
50,000 up . . . . .	32.00

**No. 30.**  $27\frac{1}{8} \times 10\frac{1}{4} \times 2\frac{3}{8}$  in. deep. A special new design for 12 or 14 plants set in a double row. Fits 7 paks to a flat  $10\frac{1}{2} \times 20\frac{1}{2}$  inches, inside diameter. Packed 200 per case—17 lbs. per case. Minimum order 200.

Quantity	Price per 1000
200-800 (200, \$9.40) . . . . .	\$47.00
1,000-9,800 . . . . .	43.00
10,000-49,800 . . . . .	40.00
50,000 up . . . . .	37.00

**No. 42.**  $5\frac{1}{2} \times 7\frac{1}{2} \times 2\frac{3}{8}$  in. deep. This original Market-Pak has been used successfully by thousands of bedding plant growers as the standard unit of sale for a dozen well grown plants. Packed 200 per case—20 lbs. per case. Minimum order 200.

Quantity	Price per 1000
200-800 (200, \$8.60) . . . . .	\$43.00
1,000-9,800 . . . . .	39.00
10,000-49,800 . . . . .	37.00
50,000 up . . . . .	34.00

**No. 60.**  $6 \times 10 \times 2\frac{5}{8}$  in. deep. Suitable for one or two dozen plants, depending on type and size or quality desired. Packed 125 per case—19 lbs. per case. Minimum order 125.

Quantity	Price per 1000
125-875 (125, \$8.25) . . . . .	\$66.00
1,000-9,875 . . . . .	60.00
10,000-49,875 . . . . .	56.00
50,000 up . . . . .	52.00

Prices PREPAID in lots of 150 lbs. or more east of the Rockies. Otherwise, F.O.B. West Chicago; Bayonne, N. J.; Allentown, Pa.; and Toledo, Ohio.

**We will be glad to send you  
samples of any sizes on request.**

Various sizes may be combined to obtain quantity prices. Also, Market-Paks and Half Flats may be combined with Jiffy-Pot orders to make up the minimum weight of 150 lbs. to qualify for PREPAID shipment, if entire order calls for shipment at one time and is to be shipped east of the Rockies.

Top quality Petunias, grown in No. 42 Market-Paks, are displayed by Mr. Harold Weber of Weber Bros., Oak Park, Mich.

Bud Mabry (kneeling) and Mr. Aldridge of Bessemer Floral (Aldridges) in Birmingham, Ala., get extra quality in Market-Pak'd Petunias by spacing Paks—note below. These Petunias were grown under plastic.

Self-service Market-Pak racks at Thomas Flower Mart, Syosset, Long Island. Art Thomas in insert says: "Switching to Market-Paks and self-service nearly doubled our volume."

Market-Paks are "the key to self-service of bedding plants" say the Carlsons of Janesville, Wis., prominent bedding plant growers. Pictured during our annual Field Day are (left to right) Mr. Carlson, Sr. and sons Russ and Tom.





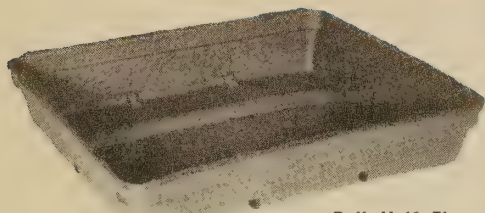


# The Key To Self Service

Market-Paks have introduced a new era of selling plants in attractive, convenient packages. "Paks" are a compromise between pots and large flats. Selling from pots is expensive, while selling from large flats either **overloads the customer** with too many of one variety and color, or **consumes selling time, digging and wrapping plants**—with all the headaches that involves. **Market-Pak** users report that they sell **more plants with less help** in the short, intensive sales period in the spring when help is hard to get.

Market-Paks make possible **better display, self-service, elimination of losses**. They have an **attractive brick-red color** and smooth finish . . . . **better drainage . . . . light weight . . . . easy to handle . . . . more durable**—hard pressed wood pulp product contains no material toxic to plant growth. Market-Paks have become the **"workhorse"** of bedding plant containers.

## BALL HALF FLAT



Ball Half Flat

The **Ball Half Flat** can accommodate 40 bedding plants with approximately the same space per plant as is found in Market-Pak No. 42 with 12 plants—a little over 3 square inches per plant.

Measuring 10x12x2½ inches, the **Ball Half Flat** is built with special rib reinforcing in the bottom—adequately drained with eight ⅝ inch holes on the sides and bottom, and has the same attractive, smooth finish and brick-red color of Market-Paks.

The **Ball Half Flat** will also be found useful for other general greenhouse purposes, such as a seed flat (it is unnecessary to sterilize before using), in carrying small plants, etc.

### PRICES

Quantity	Per 1000
200-400 (200 for \$22.00) . . . .	\$110.00
600-4,800 . . . . .	100.00
5,000 up . . . . .	90.00

Packed in cases of 200. Shipping weight 50 lbs. per case. Minimum order 200.

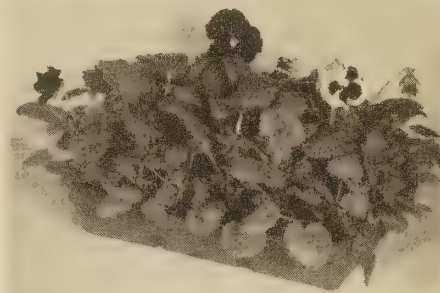
Prices NET, PREPAID in lots of 150 lbs. or more east of the Rockies. Otherwise, F.O.B. West Chicago; Bayonne, N. J.; Allentown, Pa.; and Toledo, Ohio.



In several sections of the country florists have developed a nice business in Tuberous Begonias started in Market-Paks. A "kit" offering the bulbs plus the Market-Paks is listed on page 88.



Market-Pak No. 24 is a nice package for 6 plants such as Peppers, which often are sold in less than dozen lots.



Market-Pak No. 60 is particularly well suited for Pansies. Its slightly larger size gives them plenty of room.

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### ← AT LEFT

In Rockford, Ill., the Market-Pak has become the accepted container for annuals and vegetables. In the picture to the left, Bruce Myers of Myers and Young is showing a Pak of well grown annuals to his customers. Notice the effective use of the new Jumbo Picture Card (See page 2).

### BELOW

Leonard Pitts of Birmingham, Ala., grows his bedding plants in Market-Paks and carries them on racks in order to keep his bench space available for Easter pot plants.







jiffypot jiffypot jiffypot jiffypot jiffypot

# Jiffy-Pots®

MADE OF PEAT

## THE REVOLUTIONARY PLANT GROWING CONTAINER

Jiffy-Pots, in the few years since they were first introduced, have brought many changes in the methods of growing flower, vegetable and nursery crops all over the world. In many instances they have replaced old-style pots, in others they have afforded an early start to plants that normally would be directly planted to bench, bed, field or garden.

Composed of 75% long-fibered peat and 25% wood fiber, Jiffy-Pots are uniformly impregnated with sufficient nutrients to give young plants a good start. Roots grow right through the walls, permitting repotting into larger pots or benching without removing the Jiffy-Pots.

## PRICES

### No. 115. 1½ in. Round, 1¾ in. deep.

Used for small plants that need to be grown for a short period in limited space, such as Snap seedlings or perennials for field planting.

	Per 1000
3000 to 18,000 (3000, \$17.70) .....	\$5.90
21,000 to 72,000 .....	5.40
75,000 up .....	4.90
Sold in cases of 3000. 18 lbs. per case. Minimum order 3000.	

### No. 122. 2¼ in. Round, 2¼ in. deep.

Most widely used size for florist and nursery crops. Ideal for Poinsettias, Geraniums, Foliage Plants, etc.

	Per 1000
3000 to 18,000 (3000, \$21.75) .....	\$7.25
21,000 to 72,000 .....	6.75
75,000 up .....	6.25
Sold in cases of 3000. 35 lbs. per case. Minimum order 3000.	

### No. 222. 2¼ in. Square, 2¼ in. deep.

Especially convenient for shippers of small plants like Geraniums. Fits into trays or cartons snugly and securely.

	Per 1000
2500-17,500 (2500, \$18.75) .....	\$8.00
20,000-72,500 .....	7.35
75,000 up .....	6.70
Sold in cases of 2500. 35 lbs. per case. Minimum order 2500.	

### No. 130. 3 in. Round, 3 in. deep.

For plants that make large root systems, require longer growing time or more space.

	Per 1000
1500-9000 (1500, \$19.88) .....	\$13.25
10,500-49,500 .....	12.25
51,000 up .....	11.00
Sold in cases of 1500. 35 lbs. per case. Minimum order 1500.	

### No. 230. 3 in. Square, 3 in. deep.

Nice for bench crops—no waste space.

	Per 1000
1000-9000 .....	\$14.50
10,000-49,000 .....	13.25
50,000 up .....	12.00
Sold in cases of 1000. 35 lbs. per case. Minimum order 1000.	

### No. 330. 3 in. Shorty, 2½ in. deep.

Its broad base gives greater stability. Ideal for bedding plants. Well suited for plants that are best when benched shallow, e.g. Carnations.

	Per 1000
1500-9000 (1500, \$19.50) .....	\$13.00
10,500-49,500 .....	12.00
51,000 up .....	10.75
Sold in cases of 1500. 33 lbs. per case. Minimum order 1500.	

### No. 335. 3½ in. Shorty, 3 in. deep.

Well adapted for greenhouse Tomatoes or bulbs such as Caladiums, Tuberous Begonias, etc.

	Per 1000
1000-6000 .....	\$18.25
7000-29,000 .....	17.00
30,000 up .....	15.25
Sold in cases of 1000. 35 lbs. per case. Minimum order 1000.	

### No. 140. 4 in. Round, 4 in. deep. Available January 1, 1960.

In heavy demand for Geraniums, Perennials, and Caladiums.

	Per 1000
500-4500 (500, \$13.75) .....	\$27.50
5000-19,500 .....	25.50
20,000 up .....	23.50
Sold in cases of 500. 35 lbs. per case. Minimum order 500.	

### No. 240. 4 in. Square, 4½ in. deep. Largest of the Jiffy-Pots.

	Per 1000
500-4500 (500, \$14.50) .....	\$29.00
5000-19,500 .....	26.75
20,000 up .....	24.50
Sold in cases of 500. 35 lbs. per case. Minimum order 500.	

## PRICES PREPAID on 150 lbs. or More

Prices PREPAID in lots of 150 lbs. or more anywhere in the continental United States excluding Alaska and Hawaii. Otherwise, f.o.b. West Chicago; Bayonne, N. J.; Allentown, Pa.; Toledo, Ohio; Houston, Tex.; Los Angeles, Calif.; San Francisco, Calif.; Portland, Ore.; Mobile, Ala.

NOTE: Jiffy-Pots may be combined with Market-Pak orders to make up the minimum weight of 150 lbs. to qualify for PREPAID shipment, provided entire order calls for shipment at one time, and is east of the Rockies.

PETUNIA



TAXUS



VERBENA



**YOU CAN COUNT ON JIFFY-POTS TO GIVE  
TOTAL ROOT PENETRATION**



# Handy Trays for Holding Jiffy-Pots

Will Help You Sell More Bedding Plants!

## Plastic POLY-TRAYS



Light but strong plastic trays for holding Jiffy-Potted plants—attractive gray color with adequate drainage in bottom. By offering the Jiffied plants in Poly-Trays, not only are the plants protected from damage, but often a larger unit sale results.

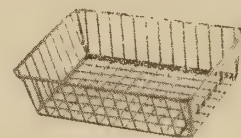
Two sizes are available: The No. 212 to hold 12 2¼-inch Jiffy-Pots and the No. 36 to hold 6 3-inch Jiffy-Pots, either round, square, or Shorty.

### POLY-TRAY PRICES

	Per 1000	
	No. 212	No. 36
250-2,250	\$84.90	\$89.90
2,500-6,000	79.90	84.90
6,250-24,750	74.90	79.90
25,000 up	69.90	74.90

Packed 250 per case. Wt., 18 lbs. Prices prepaid east of the Rockies. Prepaid west of the Rockies at \$5.00 per 1000 additional to above prices.

## JIFFY-TRAYS



This plastic basket, which we have called a **Jiffy-Tray**, holds six 2¼-inch **square Jiffies**—just tight enough for a firm fit, yet not too tight for easy removal. In this way you have a **convenient unit of sale** and yet the customer does not handle individual plants. Although attractive in themselves, Jiffy-Trays' open construction makes them inconspicuous—an important point, for the **pots can be easily seen and root growth noted**.

Bedding plants in Jiffy-Pots, six to a Jiffy-Tray, should find a ready sale in every type of retail outlet. It's the perfect combination of high quality plants and economical mass handling.

### JIFFY-TRAY PRICES

	Per 1000
1000-4000	\$31.00
5000-9000	28.00
10,000 up	26.00

Prices PREPAID east of the Rockies. PREPAID west of the Rockies at \$2.00 per 1000 added to above prices. Packed 1000 per case. **MINIMUM ORDER 1000.**  
- Shipping weight per case 33 lbs.



## Veneer PLANTRAYS

make a convenient carrier for Jiffy-Pots, both when handling the plants during the growing period and when displaying them for sale.



12 3-inch Jiffy-Potted Snap seedlings in a 4-X PlanTray.

F.O.B. West Chicago, or Isle, Minn. Various sizes may be combined to obtain quantity price.

Prices	Quantities and Sizes of Jiffy-Pots Held	Shipping Units of	Weight per 1000	Per 1000 as shown below		
				125-875	1000-2375	2500-Up
No. 2-X	12 2¼-in. Round	125	240 lbs.	\$65.40	\$61.60	\$57.75
	6 3-in. Round					
	6 3-in. Shorty					
No. 4-X	48 1½-in. Round	125	320 lbs.	79.50	74.90	70.00
	12 3-in. Round					
	12 3-in. Shorty					
No. 1-SX	36 1½ in. Round	125	288 lbs.	72.50	68.25	63.95
	16 2¼-in. Round					
	16 2¼-in. Square					
	9 3-in. Round					
	9 3-in. Square					
No. 2-SX	49 1½-in. Round	125	320 lbs.	79.50	74.90	70.00
	9 3½-in. Shorty					
No. 3-SX	64 1½-in. Round	125	400 lbs.	99.50	95.50	91.25
	36 2¼-in. Round					
	16 3-in. Round					
	16 3-in. Square					
	16 3-in. Shorty					
	9 4-in. Square					

## JIFFY-GROWER



A plastic tray holds 12 Jiffy-Pots, size 2¼-inch square. The outside plastic bag aids seed germination. Thus the Jiffy-Grower offers the home gardener enthusiast a convenient, compact unit for starting a choice of seeds indoors for later setting out in his garden, in the same way that his florist starts plants professionally. Packed 36 Jiffy-Grower units per shipping case, weight 11 pounds. Retail for 69c each. Cat. No. S225JG12, per case of 36 units, **\$14.90.**

**MINIMUM ORDER:** One case f.o.b. West Chicago. Freight prepaid on orders of 150 pounds or more.

## Retail Packages of "JIFFIES" are SELF-SELLERS



**Boost Your Spring Retail Sales By Showing These Colorful Units**

Your customers have read about Jiffy-Pots, they know what they are, and they ask for them by name. You can cash in on the thousands of lines of publicity written by garden editors, plus the continuous national advertising we give to Jiffy-Pots, if you mass-display these convenient, colorful retail packages. Your customers will want them for early starting of annuals and perennial flowers, for their Tomatoes, Cucumbers, Peppers, and other vegetables. Available in 2¼-inch and 3-inch sizes.

Cat. No.	Pot Size	Pots per pkg.	Retail price per pkg.	Pkgs. per case	Shipping weight	Price per case
R225JP12	2¼-in.	12	\$0.49	48	12 lbs.	\$14.12
R225JP24	2¼-in.	24	.89	24	10 lbs.	12.82
R300JP12	3-in.	12	.79	24	16 lbs.	11.38
B225JP50	2¼-in.	50	1.39	60	45 lbs.	50.40
B225JP100	2¼-in.	100	2.19	30	45 lbs.	39.60
B300JP50	3-in.	50	1.95	30	45 lbs.	35.10
B300JP100	3-in.	100	3.39	15	45 lbs.	30.45

**MINIMUM ORDER:** One case f.o.b. West Chicago. Freight prepaid on orders for 150 pounds or more.





**"I like to buy plants in Jiffy-Pots — they make gardening so easy — you just plant pot and all and the plant never stops growing! Well . . . they're just wonderful!"**

How true this statement is! From the time the seedlings are first dibbled into the pots—while the plants are offered for sale—after they are set out in the garden—until the season ends, Jiffy-Potted plants **make fast, strong, continuous growth.**

A pot wall made largely of compressed peat is a near-perfect environment for the development of roots. **REASONS:** (1) **Water is retained** in the peat wall and is readily and uniformly available to plant roots. (2) **Nutrients are also provided.** And (3) easily as important, **the pot wall permits sufficient air penetration** to provide roots with the necessary oxygen requirements.

**RESULTS:** **For the grower, up to two weeks faster growth** in greenhouse or cold frame—**for the gardener, no need to set out plants immediately** after bringing home, and **no setback** after transplanting, for the roots are never disturbed.

**As the lady says, "Jiffy-Potted plants never stop growing."**



# Offer Bedding Plants in

## Jiffy-Pots®

MADE OF PEAT

They're

EASIER TO PLANT

EASIER TO GROW

EASIER TO SELL

More and more home gardeners are learning about Jiffy-Pots each year. Once they have tried them, they ask their florist for Jiffy-Potted plants again the next season. **Probably the most widespread use to which Jiffy-Pots have been put in the past five years has been for bedding plants and other plants bought by the home gardener in the spring, such as perennials and garden vegetables—Tomatoes, Peppers, Cucumbers, Melons, Eggplant and others.**

The reason for their increasing popularity in this market is clear: You plant "POT AND ALL" saving time and trouble . . . eliminating root shock . . . producing earlier and better blooms and vegetables. These points have a real appeal in this day of labor-saving appliances and easy living. When the gardener buys his plants in Jiffies, he is almost buying a "ready made" garden—easy to plant and soon to bloom.

To avoid any damage to the Jiffy-Potted plants through excessive customer handling, several suggestions can be made. The pots are weakest when wet—it's best to keep them on the dry side during the selling period. Signs on the wall of the sales area, asking customers not to handle plants, help to minimize damage—although never fully effective perhaps. Offering six or twelve Jiffy-Potted plants in a small container such as a Jiffy-Tray, Poly-Tray or veneer PlanTray not only reduces damage by customer mis-handling, but also encourages a larger unit sale. Sometimes empty shoe boxes can be obtained from a local merchant and these are handy for carrying out the plants. A customer buying bedding plants in Jiffies for the **second** time has learned to handle them carefully—and recognizes their real value as well.

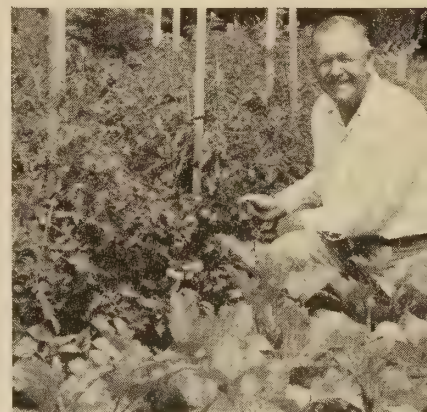
Certain bulbs are becoming popular subjects for starting in Jiffy-Pots and selling as bedding plants. "Kits" combining both Jiffies and either Caladium bulbs or Tuberous Begonias (shown below) are listed on pages 88 and 90.



→  
"Jiffy-Pots have been a life saver to us" says Jim Shults pictured here (left) with his grower Don Remund. Many difficult-to-grow items for that area have now been brought back into the bedding plant picture. Jim likes the uniform growth and excellent root penetration (see photo upper right) that he gets with Jiffy-Pots. Shults' greenhouses are located in Hot Springs, Arkansas.



While all annuals develop into fine plants in Jiffy-Pots, those that must be started early such as Verbenas (above), Snaps, dwarf Dahlias, Lantana, Salvia and Petunias do especially well. Plants started in Jiffies take off at once when set out in the garden and produce the earliest blooms.



Vegetables in Jiffies, sold as bedding plants, do exceptionally well. This typical gardener beams with pride at his Tomato crop, grown from 3-inch Jiffy-Potted plants purchased at a nearby garden center.



# Jiffy-Pots®

MADE OF PEAT

## POINSETTIAS

Poinsettias are probably the most important commercial pot plant crop in which Jiffy-Pots are widely used. At the beginning, growers had troubles adjusting their schedules to the faster growth which they experienced by Jiffy-Potting

cuttings of Poinsettias. Most growers report that they can propagate 10 days to two weeks later by using Jiffy-Pots.

This makes Jiffy-Potting the early flush of cuttings impractical for many growers who find that Jiffy-Potted cuttings made, for example, in midsummer grow too fast and tend to draw up. But for midseason and for late propagation Jiffy-Pots are ideal. The tender, easily damaged roots of Poinsettias—they are as brittle as shredded wheat—seem to respond especially to the gentle treatment they get from transplanting in Jiffy-Pots.

There are some growers who through careful watering can control the stretch of early propagated Jiffy-Potted Poinsettias and do this entire job in Jiffy-Pots. But with most growers using Jiffy-Pots, Poinsettia cutting production is shifting to later in the season, first cuttings being taken August 10 or later. Only two or three flushes of cuttings are taken. Stock plants are pinched during June and July to produce more breaks. Total cutting production is at least equal to old early-propagation system. Stock can be lighted from September 25 to October 10, late batch of cuttings taken October 10 for direct rooting in 3-inch Jiffy-Pots for finishing. (Drop the Jiffy into a plastic pot for selling).

## FOLIAGE PLANTS

A Jiffy-Pot, with its reservoir of moisture and fertilizer, is a natural environment for tropical Foliage plants. Northern growers are reducing losses of rooted cuttings by potting into Jiffies as soon as cuttings arrive. Shippers in the South get better "take", rooting and shipping in 2 1/4, 3, and even 1 1/2-inch Jiffy-Pots.

Your florist customers will find Jiffy-Potted Foliage plants beneficial when arranging in planters and dish gardens. The plants can be moved about as many times as is necessary to arrive at the best possible arrangement, without fear of disturbing the root structures..

The Dinsers in Oak Park, Michigan, are among the largest growers in the Detroit area. Pictured here are Si Randolph, G.J.B., and Leif Koxvold flanking part of the Dinsers clan, looking over their Jiffy-Potted Poinsettias.

Donald Staats, grower at Gude Brothers in Washington, D. C., says this about his experience with Poinsettias in Jiffy-Pots: "We can propagate later in Jiffy-Pots and shift sooner—this saves space because of later propagation. You can pan faster because you don't have to remove the pot. Growth looked excellent—no root check after we panned 2000 plants."

Carmen Walton of Conroe, Texas, grows 2 1/4-inch Jiffy-Potted Peperomia, Emerald Ripple by the bench. These are shifted upward to 4-inch clays with much saving in time and labor.



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Bill Gunesh of Park Floral Company, Denver, Colorado, has been Jiffy-Potting his Poinsettia crop for several years. Bill reports losses less than 1%. Rooting is done IN THE POT under mist. Bill reports: 12 days to callous, 6 days to root, 6 days for root penetration through Jiffy-Pot wall.

One of the largest wholesale growers in the South is the Southern Floral Company, Houston, Texas, who Jiffy-Pot a great many Poinsettias. Poinsettias are an important crop for them as they fill four 45x150 foot houses. Left to right: Leif Koxvold, John Hattieberg and Will Weatherford, owner.



# MUMS

Increase Your Mum Profits

with Jiffy-Pots!

# Jiffy-Pots®

MADE OF PEAT

Gro. J. Ball  
INC.

## Here's How:

**Faster Growth**—steady and unchecked in this ideal container.

**Heavier Growth**—thicker stems, more dense foliage, better flowers.

**Time Saving**—faster growth means later propagation.

**Space Saving**—start new crop in Jiffies while old one cuts out.

**No-Check Transplanting**—uninterrupted growth.

**Labor Saving**—no pots to wash, sterilize, or store for re-use.

**Meets Emergencies**—hold plants in Jiffies until bench space clears.

Progressive year-round and off-season Mum growers in various parts of the country have found that Jiffy-Potting Mum cuttings and planting established plants can be a real money making scheme. Nearly one full additional crop per year can be cut, which more than outweighs the added cost of pots and handling.

**Garden Mums** can be grown nicely in Jiffies. While 3-inch are usually used, one large grower pots them in 2¼-inch Jiffy-Pots set in Grape lugs for shipment to garden centers.

## SNAPDRAGONS

The year-round Snap grower can get steady midwinter production by using 2¼-inch Jiffy-Pots for 6 to 8 weeks in his fall sowings. This means 3 full crops a year at an even rate of production. Using 2¼-inch Jiffy-Pots 100% of the time increases production at all seasons, to as much as 5 complete crops a year by actual test!

## ASTERS

Like Snaps, direct benched Aster seedlings take a long time to flower, especially the early crops. Here's a method to **save valuable bench time** yet retain **unchecked growth**. An example of using Jiffies to dovetail Asters into a mixed rotation: follow normal season November Mums with Ball Asters sown September 10, potted in 2¼-inch Jiffy-Pots October 1, benched November 25. These will flower in March, to clear in time for bedding plants or an extra Snap or Mum crop.

Michael Kirsch of The Rose Fair, Inc., Blue Point, Long Island, New York, Jiffy-Pots their entire year-round Mum crop. Mr. Kirsch states that the use of Jiffy-Pots has increased The Rose Fair's Mum production by 25%.

"The Jiffy-Pot has been one of the best things to hit the greenhouse business in many years", says Jim Springer (left) and Robert Cashman of Cashman Greenhouses, Owatonna, Minn. "No check to plants and no time lost on our Mum schedule."

On the West coast, Sid Jary and Lou Waring put growth on the future bench crop of Mums by placing the Jiffy-Potted cuttings in flats and placing the flats on racks along the north wall of each house. Enough plants are kept in supply this way to keep plants continuously available to plant in each bench as it cuts out in their year-round program. Hank Van Wyngarden of Ball's, on the left.

Many precision Snap growers use Jiffy-Pots to tighten their crop timing. Here's Bill Risch of Indianapolis, Indiana, who pots Snaps into 2¼-inch Jiffy-Pots.



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Earl Hall, West Grove Greenhouses of West Grove, Pennsylvania, finds that Jiffy-Potting evens out fluctuations which occasionally occur in the timing of their important potted Mum program.







## "The ideal way to handle Geraniums"

Says Phil Liebel of Ansonia Floral Co., Ansonia, Conn.

Mr. Liebel has tried all types of disposable fiber pots currently being offered, and his tests have proven the superiority of Jiffy-Pots. He especially likes the uniformity of the peat fiber and nutrient content of Jiffy-Pots, which do not vary from one shipment to another or one season to the next. He is shown here with Rocky Calamia (left) of Ball's and Leif Koxvold (right) inventor of Jiffy-Pots.

### With GERANIUMS in JIFFY - POTS

Growth is so rapid that unrooted cuttings stuck in Jiffy-Pots are ready to ship in 3 weeks from early and midseason propagations, cuttings taken from plants during the winter months are ready for shipping in 5 weeks.

The Braun Bros. of Hightstown, New Jersey, find Jiffies result

in lower costs, better plants, quicker turnover, and more plants per sq. ft. of bench.

Dana Perkins of Walker and Lubin Ghsses., Lapeer, Michigan says, "We're rooting Geraniums in 2¼-inch Jiffy-Pots throughout the season and losses are negligible. We have less rot than in our previous system."



# Jiffy-Pots®

MADE OF PEAT

## FOR CARNATIONS COAST TO COAST

CALIFORNIA COLORADO INDIANA OHIO MARYLAND

For years Carnation growers have used various types of containers such as pots, bands, etc., to establish cuttings and get good breaks while the previous crop is still producing revenue in late spring. This "overlap" technique is used by some growers—others "bench direct" rooted cuttings—some cut plants out of flats.

The system of overlap rotation is growing in popularity, mainly because in the Jiffy-Pot, Carnation growers now have a near-perfect container for this purpose. Growth is completely satisfactory and the plant need not be removed from the pot which makes for fast planting.

**Selection against disease** and poor plants is facilitated . . . diseased plants are easily rogued out and spread to other plants is lessened. **25 % more plants** can be grown in a given area using Jiffy-Pots in the nursery bed. **Less root injury** to plants—easier to handle in transplanting.

3-inch Shorties are convenient to use—their shallow depth fits inside the usual flats—flats of Jiffies can be prepared ahead of time and stacked until ready to plant.

Leading growers in each of the major Carnation growing areas are now using Jiffy-Pots and generally are quite enthusiastic about the results.



Sonny Elliot (left) one of the top growers of the Denver Wholesale Florist group says: "We're doing this as a labor saver—Jiffy-Pots make fast planting. We pot in late April and keep them in the pots for six to eight weeks. The pots are set up in Grape lugs. Plants grow well in 2 1/4-inch Jiffy-Pots and have better color. I like the Jiffy-Pots because they have a sharp, square corner."

One of the largest and best growers of Carnations in the Midwest is the Joseph Hill Company in Richmond, Indiana. Dick Mikesell of Hill's, shown with Monty Wright of Ball's, ran an analysis of his handling costs in his Carnation crop in Jiffy-Pots versus clay pots and found that labor saved alone with Jiffy-Pots accounted for the entire cost of the Jiffy-Pots themselves!



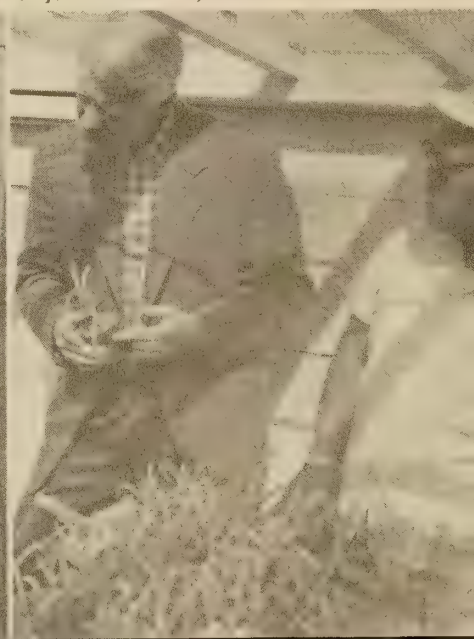
Jack Kreci of Dieckman-McCauslen Greenhouse Company, Winterville, Ohio, roots Carnations direct in Jiffy-Pots in a mixture of 1/2 peat and 1/2 soil. These plants were stuck on Jan. 19, pinched Feb. 15, ready to bench Mar. 1. Kreci fills pots with soil mixture and sets them on the bench ahead of time, sticking cuttings as it is convenient and as they are taken.

Many Carnation growers are rooting in Jiffy-Pots which of course saves considerable time and labor in transplanting. John Fantom of Fantom & Gahs, Baltimore, Maryland, also places pots in wire mesh so that they are held up from the bench and are completely sterile. They root in 1/3 Perlite and 2/3 soil. Bill Franklin, of Ball's is on the left.



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Hip Honda, Woodside Nurseries, Redwood City, California, was the first Carnation grower in the important Bay Area to use Jiffy-Pots for Carnations. Well over one million are now used annually for this purpose in that territory. Leif Koxvold, left.







# TOMATOES and other VEGETABLES

are more profitable when started in

## Jiffy-Pots<sup>®</sup>

MADE OF PEAT

Jiffy-Pots give **earlier, steadier, and bigger yields.** They mean **better control** too—plants don't get away, can be held back if the season is delayed or bad weather sets in. With Jiffies the crop is **increased** and **evened out**—all the feeding roots are saved ready to go to work an hour after the plants are set in the ground.

### EARLIER PRODUCTION

Roots grow right through Jiffy-Pot walls—you plant into the field “pot and all.” Young plants suffer no transplant shock, become quickly established, start to produce up to three weeks earlier.

### GREATER YIELD

Controlled field trials in Northern Illinois of Tomatoes and Cucumbers have shown that Jiffy-Potted plants have outyielded bare root or field seeded plants, in some cases by substantial margins. Similar reports have been received from commercial growers in many other sections of the country—not only in regard to Tomatoes and Cucumbers, but also Melons, Peppers, Eggplants and other vegetables.

Leonard Bettinger, former president of the Ohio Vegetable Growers Association, and Carl Ball looking at 2¼-inch Jiffy-Potted Tomato plants. Bettinger Farms, Swanton, Ohio, grow over 100,000 Tomatoes in Jiffy-Pots. They use some for their own fresh market production, sell some to other farmers in their area, wholesale some to garden centers for resale to the home gardener, and grow them under contract for several large canneries. They find Tomatoes started in Jiffy-Pots will produce for the market 10 days to 2 weeks ahead of others.

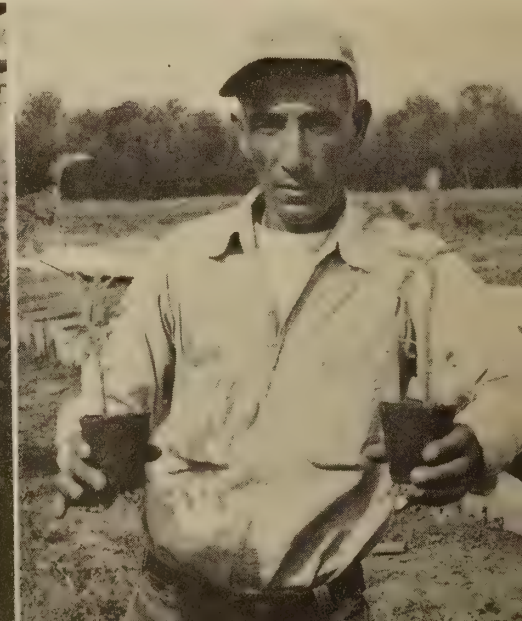


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Robert Panchyshyn of Rogers, Minnesota, is shown holding a used Lettuce crate filled with 4-inch square Jiffy-Pots with Tomatoes in them. Bob says: “We like this 4-inch square Jiffy-Pot for our early Tomatoes.” The Lettuce crate holds sixteen 4-inch square Jiffy-Pots. The early fruiting of Jiffy-Potted Tomatoes seems equally valuable to commercial growers in all parts of the country.

In the center, Ed Drollinger of Bunker Hill Greenhouses, Cleveland area, (Medina, Ohio) who uses Jiffy-Pots for the production of glass house Tomatoes with important savings of labor and handling as compared with clay pots. Commercial growers of glass house Tomatoes use 3- and 4-inch Jiffy-Pots. Harold Innis, G. J. Ball, Inc., representative (left), and Leif Koxvold, Jiffy-Pot manufacturer (right).

Salvatore Ranatza of Gretna, Louisiana, speaks for the typical fresh market Tomato growers. He says: “40 days from today we will be picking Tomatoes from these plants. We get 70% of the first flowers to set fruit. This is our third year with Jiffy-Pots and now we feel that there is no other way to grow Tomatoes in our area. Potted plants sure could not compete with these plants.”







Travis Lobell of Springfield, Louisiana, with part of his Pepper crop in 3-inch, round Jiffy-Pots. "This is our first year with Peppers in Jiffy-Pots but we are sure happy with the results so far. These are the best looking Peppers I have seen. We will use more than 30,000 next year." Seed sown January 26, 1959, potted February 26, and photo taken March 17, 1959.

## More Uniform Crops

With Jiffies the crop is increased and evened out—all the feeding roots are saved, ready to go to work an hour after plants are in the ground. Jiffy-Pots eliminate any replanting due to poor germination of direct-seeded vegetables or to loss of tender seedlings from unseasonal cold spells—reduce field hazards such as insects or weeds because Jiffy-Potted plants are larger when set out—permit earlier cultivating without danger to the plants.

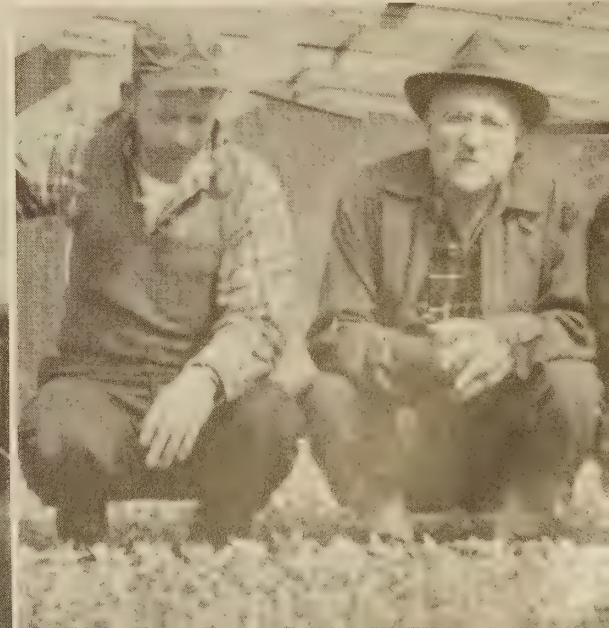
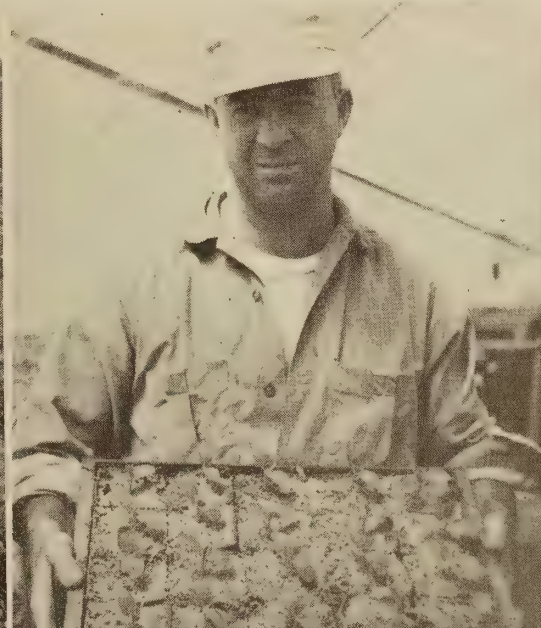
A number of growers have used Jiffy-Pots for replanting the "skips" in their commercial crops. If you suffer, say, 10% loss in the field and can bring along Jiffy-Potted plants with your field crop and spot them in where plants have died out, your TOTAL yield will be substantially increased, while overhead costs, such as weeding, spraying, irrigation, and land rental costs remain the same.

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Growers of Sweet Corn for the fresh market in various parts of the country have reported Jiffy-Potted Corn plants yield 2 or 3 weeks ahead of direct seeded. Shown is a field test of a newly designed "Jiffy-Potting Holland Transplanter" which proved entirely satisfactory for field planting of Jiffy-Potted vegetables. WRITE FOR INFORMATION.

Cantaloupe started by James Goodrich of Champlin, Minnesota in 3-inch square Jiffy-Pots. The seed was sown in the pots two weeks prior to the picture, which was taken April 29. Mr. Goodrich says: "By using your Jiffy-Pots, I will be on the market with my Melons before anyone else in the Minneapolis area."

Roy Flint (left) and H. Kennedy (right) of Summerdale, (Baldwin County) Alabama, agree that Jiffy-Pots are the only way to grow Watermelon. "We won't have any replanting to do this year. Our field mice problem is licked and we will get an earlier crop too."







"Our planting crew would hate to think of going back to clay pots after having used Jiffy-Pots for several years. Clay pots meant extra work, pots to be knocked out, gathered from the fields, stored, etc.," reports William Flemer III (left) of Princeton Nurseries, Princeton, New Jersey. They use over one-half million Jiffy-Pots annually for a wide variety of nursery subjects grown on their 1000 acres of planting area. Mr. Flemer is shown with Leif Koxvold, Jiffy-Pot manufacturer.

## Leading Nurserymen

Nursery stock reaches salable size at least 20 per cent faster. Propagators report that 3-year-old stock which was started in Jiffy-Pots is fully equal to 4-year stock started in clay pots. This increase is due to better and faster development and **no transplant shock**. The peat pot protects the soil ball during the transplanting operation.

Your growing area will handle 15 per cent more Jiffy-Potted liners

than clay-potted liners. Pot handling chores are all but eliminated, which leads to greatly **increased efficiency**.

**Field planting operations can continue over a longer period of time** because Jiffy-Potted liners need not be root-bound prior to going into the field, but can be set out after only a few weeks. On the other hand, if adverse weather conditions delay field planting, Jiffy-Potted plants keep right on growing and the crop is not delayed.

Here are but a few of the nursery items that have been successfully grown in Jiffy-Pots.

### DECIDUOUS

Acer	Euonymus	Privet	Syringa	Weigela
Althea	Forsythia	Prunus	Viburnum	Vaniceki
Buckthorn	Hydrangea	Red Barberry	Pachysandra	Callicarpa
Cornus	Kolkwitzia	Veronica	Pachystima	Purpurea
Cotoneaster	Lonicera	Quercus	Ilex Burfordi	Nandina
Deutzia	Malus	Ribes	Photinia	Domestica
Elm	Philadelphia	Spirea	Serrulata	

### EVERGREENS

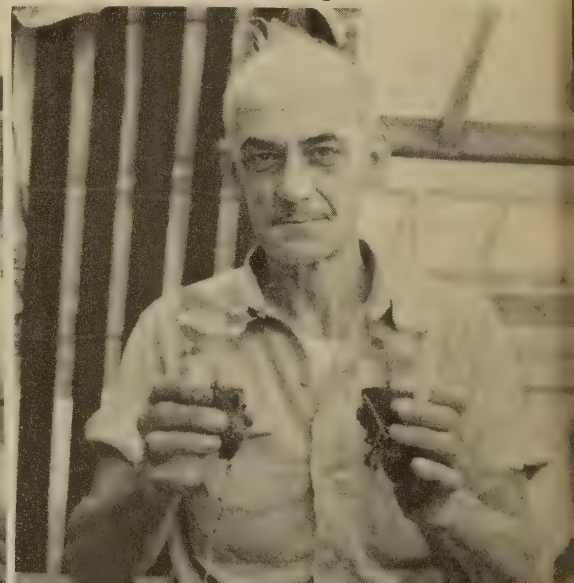
Arbortvitae	Magnolia
Azalea	Pine
Boxwood	Rhododendron
Camellia	Spruce
Holly	Taxus
Juniper	

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Jackson & Perkins Co. of California, Pleasanton, use about 100,000 2 1/4- and 3-inch Jiffy Pots for growing Rose seedlings in their breeding of new varieties of Hybrid Teas and other Roses. Dennison Morey, plant breeder, is very enthusiastic about the use of Jiffy-Pots in this connection.

Gresham Nurseries, Richmond, Virginia, grows ground cover Vinca Minor in 2 1/4-inch round Jiffy-Pots. Mr. Gresham states: "When using Jiffy-Pots you don't have to knock out of clay and wrap pots for shipping. They're not as hard to take up and cost no more than potting in clay. We find that anything you can handle under six months in Jiffy-Pots is very practical."

Springbrook Gardens, Mentor, Ohio, starts Campanula carpatica (shown) and other perennials in small 1 1/2-inch Jiffy-Pots for growing-on in the open field. They can get a lot more Jiffies in the greenhouse space than they could with the 1 3/4-inch clay pots they used to use and difference in growth is striking.







The Oki Brothers of Sacramento Nurseries, Sacramento, California, are keen advocates of the use of Jiffy-Pots in their Nursery operations. One million pots per year are used to grow-on virtually everything on their list. They are specialists in container production and are very progressive growers with heavily mechanized operation. They use automatic machines for planting Jiffy-Potted plants into gallon cans. Shown are George Oki (left) with Leif Koxvold of Norway and John Kyne, Ball salesman.



## are using Jiffy-Pots

### PERENNIALS

Perennials are gaining in popularity among selective gardeners as they offer a change from the standard run of annuals. They can be started in Jiffies in the spring, then set out in the field, or Jiffied in the summer and carried over in frames. However, more and more growers are finding they can **sow perennials in midwinter**, Jiffy-Pot them and have heavy salable plants for spring sales.

Some of the more popular perennials that have done well treated in this manner are Delphinium, Shasta Daisy, Aquilegia, English Daisy and Campanula to mention a few.

Here are a few subjects which George and Dick Oki have had in Jiffy-Pots for four months: *Juniper tamariscidolia*, *Ceanothus gloriosus*, *Daphne odora*, *Euonymus auro marginata*, and the bottom row, left to right: *Citrus Meyer Lemon*, *Juniper Pfitzeri*, *Chamaecyparis Ellwoodii*, *Juniper chinensis stricta*, *Ceanothus Grissus horizontalis*.



### DO JIFFY-POTS LAST LONG ENOUGH?

The frequent experience of nurserymen who have carried Jiffy-Potted liners for a year and longer in a frame, with the pot intact, can fully dispel the notion about the pots immediately disintegrating. Actually the Jiffy-Pot is made mostly of peat moss, which is a very durable material and the pot disintegrates only in the sense that action of frost, moisture, root penetration, etc., will break it apart. There is no rule of thumb about how long a Jiffy-Pot will last. It depends entirely upon the circumstances of its use.

Owen Blackwell (left) Semmes, Alabama, and Bob Chase, GJB, looking at the Jiffy-Potted Azalea, Red Wing, Owen is holding. It was carried in a cold frame from August to February and then bunched in peat moss beds in the plastic house. Owen says, "All of our Azaleas will be handled in Jiffy-Pots because we can grow a larger plant in less time."



Many perennials are transplanted directly into 2 1/4- and 3-inch Jiffy-Pots and sold for garden plants as with this 3-inch Jiffy-Potted Hardy Mum with strong breaks, typical of the heavy stock grown by Cunningham Gardens, Waldron, Ind.





# WELL PREPARED SOIL MEANS Well Produced Plants

Nothing is more important in obtaining good seed germination and in growing good plants in flats, paks and pots than a soil of the proper ingredients, well mixed and of the right texture. For breaking up the heavy field soil and pulverizing manure, a good **Soil Shredder** is invaluable.

Complete mixing of the various ingredients can be accomplished. To obtain a nice fine soil for seed flats or pots, the new **Krieger Soil Screener** is a great time-saver over the old-fashioned hand screen.

## KRIEGER SOIL SCREENER

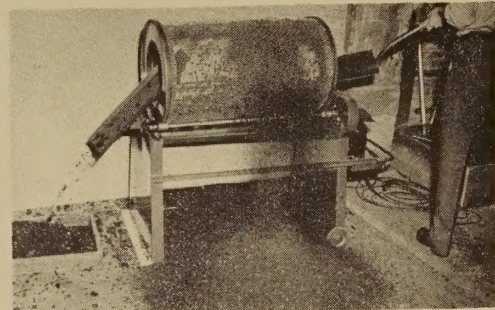
- Fluffs, mixes and aerates soil for potting.
- Screens out trash and stones.
- Does not remove valuable humus—leaves soil in best possible condition.
- Screens as fast as you can shovel.
- Eliminates the back-breaking, time consuming job of hand screening.
- So completely safe, a child can operate it.
- Light in weight—can be easily wheeled or lifted to where the job is to be done.
- Makes seeding and transplanting a pleasure.

### SPECIFICATIONS

**Capacity:** About 60 bushels an hour.  
**Over-all Size:** 60 in. long, 24 in. wide, 45 in. high.  
**Construction:** Frame heavy steel plate, galvanized mesh drum lifts off for easy moving. Metal chute channels out trash, stones. Ball bearings. Driven by 1/4 H.P., 110 volt motor.

### PRICES

Without Motor ..... \$135.00  
With 1/4 H.P. Motor ..... 175.00  
Shipping weight about 100 lbs. F.O.B. Mason City, Iowa.



Trash and stones are ejected at the left, while the sifted soil, well mixed with compost, falls into a pile alongside the machine.

## LINDIG SOIL SHREDDERS — A Size and Model for Every Job

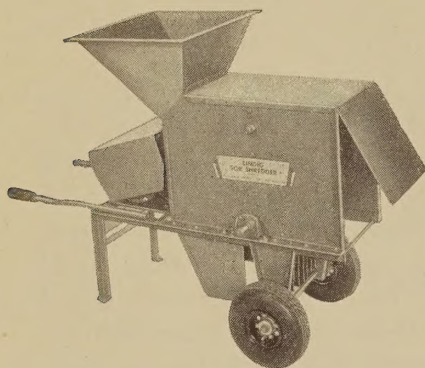
Designed to give fast, thorough, and complete shredding of soil, manure, peat, compost, etc. Equipped with free-swinging ACTIONIZED SHREDDING BLADES OF ALLOY STEEL, mounted on heavy steel rotors. The upper stationary blades are individually mounted with a spring controlling each blade, giving close control over the shredded material as it allows only the required opening to be made for a non-crushable object to pass through the shredder. The body and hopper are fabricated of heavy gauge sheet steel. The discharge door is adjustable and can be regulated to control the flow of material as it leaves the shredder. All models have semi-pneumatic, rubber-tired wheels.

SPECIFICATIONS						
MODELS	JR-B	1B-4	1B-6	2B-6	2B-8	B-24
Height	29"	36"	36"	36"	36"	48"
Length	38"	46"	46"	46"	46"	48"
Width at wheels	15"	18 1/2"	18 1/2"	20 1/2"	20 1/2"	41"
Feeding Hopper	15 1/2"x14"	16"x18"	16"x18"	18"x20"	18"x20"	20"x25"
Rotor Width	7"	8 1/2"	8 1/2"	10 1/2"	10 1/2"	22"
No. of Shredding Hammers	15	16	24	24	32	48
No. of Upper Pivoting Blades	4	3	5	5	7	13
Capacity per hr. Wt., less power	3 yds. 90 lbs.	8 yds. 155 lbs.	8 yds. 165 lbs.	14 yds. 170 lbs.	14 yds. 180 lbs.	25 yds. 880 lbs.

### PRICES:

	JR-B	1B-4	1B-6	2B-6	2B-8	B-24
Less Power .....	\$110.00	\$152.00	\$162.00	\$182.00	\$192.00	\$550.00
With 1/2 H.P. Electric Motor .....	160.00	.....	.....	.....	.....	.....
With 3/4 H.P. Electric Motor .....	.....	227.00	237.00	257.00	.....	.....
With 1 H.P. Electric Motor .....	.....	.....	.....	279.00	289.00	.....
With 1 1/2 H.P. 1 phase Electric Motor ..	.....	.....	.....	350.00	360.00	.....
With 1 1/2 H.P. 3 phase Electric Motor ..	.....	.....	.....	315.00	325.00	.....
With 1 1/2 H.P. Gas Engine and Clutch ..	160.00	.....	.....	.....	.....	.....
With 2 H.P. Gas Engine and Clutch ....	.....	222.00	232.00	252.00	262.00	.....
With 2.8 H.P. Gas Engine and Clutch ..	.....	.....	.....	260.00	270.00	.....
With 15 H.P. Gas Engine, Clutch and Manual Starter .....	.....	.....	.....	.....	.....	965.00
With 15 H.P. Gas Engine, Clutch and Electric Starter .....	.....	.....	.....	.....	.....	1090.00
Screening Attachment, complete .....	.....	60.00	60.00	70.00	70.00	140.00
Extra Screen Inserts .....	.....	4.00	4.00	5.00	5.00	12.00

All prices F.O.B. St. Paul, Minn. SEND FOR DETAILED CIRCULAR.



## MERCHANDISING AIDS To Help You Sell More Plants

### MOLESTA PLANT CARRIER

**Sells More Plants in  
Less Time**

This handy carrier for six small potted plants fills a long-felt need by the florist. The **Molesta Plant Carrier** can be used for all types of pots—clay, plastic, aluminum or **Jiffy-Pots**. The 2-inch pot size will accommodate either 2-inch or 2 1/4-inch pots. The 3-inch pot size accommodates the one size only. Made of sturdy tan cardboard with the inner surface varnished to resist damage by moisture.



### PRICES

2-Inch	Per 1000	3-Inch	Per 1000
200-800 (200 for \$8.80) ..	\$44.00	100-900 (100 for \$7.70) ..	\$77.00
1,000-4,800 .....	39.00	1,000-4,900 .....	72.00
5,000 up .....	36.00	5,000 up .....	69.00
Packed 200 per case, shipping weight 35 lbs. Minimum order 200.		Packed 100 per case, shipping weight 38 lbs. Minimum order 100.	

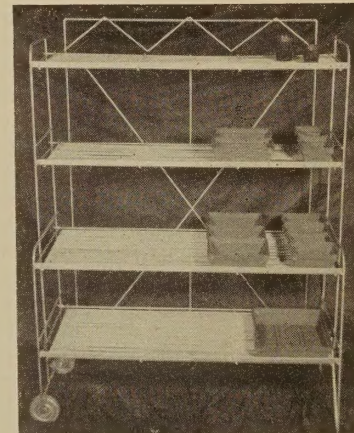
Prices F.O.B. West Chicago, Ill.

### PLANT DISPLAY RACK

- Displays three times as much merchandise in the same area as old-style ground or bench selling.
- Shelves can be adjusted to lie flat or slanted downward for better display.
- The two wheels make the rack easily portable—it rolls like a wheelbarrow.
- On top is a special holder for your Ball Sweet Sixteen posters.
- Also used to display pot plants, dish gardens, etc.
- Folds flat in one piece in less than a minute for easy storing.

### Specifications:

Over-all length 39 inches.  
Top shelf 46 inches high, others 12 inches apart; extra 4-inch space between bottom two shelves.  
Top two shelves 11 inches front to back. Bottom two shelves 16 inches front to back.  
1 to 9 racks, \$23.95 each; 10 or more racks, \$22.95 each.  
Shipping weight, 50 lbs., F.O.B. West Chicago, Ill.





## SEEDS

## Cash with order or C.O.D.:

Under \$10.00 .....	Net	\$100.00 to \$300.00.....	10%
\$10.00 to \$25.00.....	5%	\$300.00 and over.....	12%
\$25.00 to \$100.00.....	8%		

## Charge Seed Orders if paid within 30 days from date of invoice:

Under \$10.00 .....	Net	\$100.00 to \$300.00.....	8%
\$10.00 to \$25.00.....	2%	\$300.00 and over.....	10%
\$25.00 to \$100.00.....	5%		

## PLANTS, BULBS, CONTAINERS AND OTHER SUPPLIES

Cash with order: 2% (Mylar, 3%) Charge orders: 2% 10 days  
Plant Containers and other Supplies cannot be sent C.O.D.

All invoices are due and payable 30 days after invoice date.

If this is your first order, it should be signed with some individual's name in writing. Payment should accompany all orders unless credit has been established. C.O.D. shipments 50% in advance.

All prices in this catalog subject to change without notice.

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We Also Issue the Ball Mum Guide. Write for Your Copy.

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Memorial Day							
May 30							
All Sts. Day Nov. 1							
Thanksgiving							
Nov. 24							
Christmas Dec. 25							

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Feb. 14							
Easter April 17-60							
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Printed in U.S.A.



